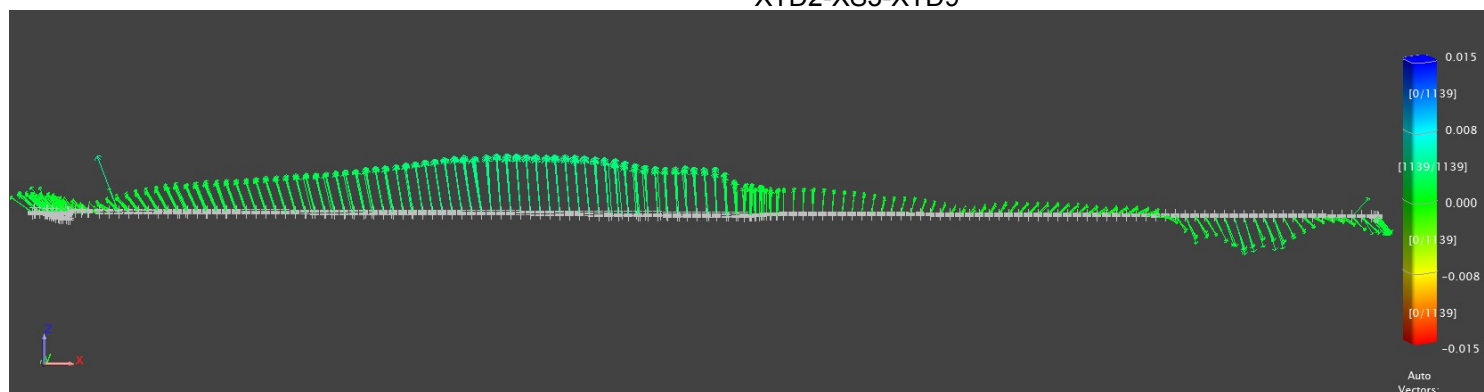




| All Vectors Summary: Vector Group                                |           |           |           |                 |
|------------------------------------------------------------------|-----------|-----------|-----------|-----------------|
| PANDA_PR_Komplett::Auto Vectors: Groups: LA_XFEL_Gesamt_20140930 |           |           |           |                 |
| Statistic                                                        | dX<br>(m) | dY<br>(m) | dZ<br>(m) | Mag<br>(m)      |
| Min                                                              | -0.002    | -0.001    | -0.004    | 0.001           |
| Max                                                              | 0.002     | 0.003     | 0.005     | 0.006           |
| Average                                                          | -0.000    | 0.000     | 0.002     | 0.003           |
| StdDev from Avg                                                  | 0.001     | 0.001     | 0.002     | 0.001           |
| StdDev from Zero                                                 | 0.001     | 0.001     | 0.003     | 0.003           |
| RMS                                                              | 0.001     | 0.001     | 0.003     | 0.003           |
| Tol Range                                                        |           |           |           | -0.001<br>0.001 |
| In Tol                                                           |           |           |           | 11 (1.0%)       |
| Out Tol                                                          |           |           |           | 1128 (99.0%)    |
| Count                                                            | 1139      |           |           |                 |

| Vector Group                                                     |           |           |           |           |           |           |           |           |           |            |   |
|------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|---|
| PANDA_PR_Komplett::Auto Vectors: Groups: LA_XFEL_Gesamt_20140930 |           |           |           |           |           |           |           |           |           |            |   |
| Name                                                             | Begin     |           |           | End       |           |           | Delta     |           |           | Mag<br>(m) |   |
|                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) |            |   |
| D2-2131.2                                                        | -672.158  | 17.770    | -1.448    | -672.159  | 17.771    | -1.447    | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2131.3                                                        | -672.211  | 19.292    | -1.154    | -672.212  | 19.293    | -1.153    | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2131.4                                                        | -672.214  | 19.292    | -0.650    | -672.215  | 19.293    | -0.649    | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2131.5                                                        | -672.192  | 19.294    | 0.350     | -672.193  | 19.294    | 0.351     | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2132.2                                                        | -669.715  | 19.498    | -1.442    | -669.716  | 19.499    | -1.441    | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2132.3                                                        | -671.185  | 19.536    | -1.161    | -671.186  | 19.536    | -1.159    | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2132.4                                                        | -671.189  | 19.539    | -0.648    | -671.190  | 19.540    | -0.646    | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2132.5                                                        | -671.188  | 19.572    | 0.347     | -671.189  | 19.572    | 0.348     | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2132.6                                                        | -671.189  | 19.572    | 1.035     | -671.190  | 19.573    | 1.037     | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2133.3                                                        | -669.531  | 16.850    | -1.142    | -669.532  | 16.851    | -1.141    | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2133.4                                                        | -669.523  | 16.846    | -0.527    | -669.525  | 16.846    | -0.526    | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2133.5                                                        | -669.527  | 16.841    | 0.374     | -669.528  | 16.841    | 0.375     | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2136.2                                                        | -667.031  | 17.867    | -1.440    | -667.032  | 17.868    | -1.439    | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2136.3                                                        | -667.182  | 19.415    | -1.159    | -667.184  | 19.416    | -1.157    | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2136.4                                                        | -667.204  | 19.415    | -0.643    | -667.206  | 19.416    | -0.642    | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2136.5                                                        | -667.192  | 19.413    | 0.349     | -667.193  | 19.414    | 0.350     | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2136.6                                                        | -667.202  | 19.407    | 1.103     | -667.203  | 19.408    | 1.104     | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2140.2                                                        | -663.233  | 17.218    | -1.443    | -663.234  | 17.219    | -1.442    | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2140.3                                                        | -663.341  | 15.762    | -1.166    | -663.342  | 15.762    | -1.165    | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2140.5                                                        | -663.363  | 15.760    | 0.351     | -663.364  | 15.761    | 0.352     | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2140.6                                                        | -663.367  | 15.761    | 1.077     | -663.368  | 15.762    | 1.078     | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2140.7                                                        | -663.407  | 15.765    | 1.977     | -663.408  | 15.766    | 1.978     | -0.001    | 0.001     | 0.001     | 0.002      | + |
| D2-2146.10                                                       | -657.480  | 20.927    | 0.357     | -657.481  | 20.928    | 0.358     | -0.001    | 0.001     | 0.001     | 0.001      | + |
| D2-2146.2                                                        | -657.411  | 17.076    | -1.439    | -657.412  | 17.077    | -1.438    | -0.001    | 0.001     | 0.001     | 0.001      | + |
| D2-2146.3                                                        | -657.450  | 15.604    | -1.147    | -657.451  | 15.605    | -1.147    | -0.001    | 0.001     | 0.000     | 0.001      | + |
| D2-2146.4                                                        | -657.467  | 15.603    | -0.662    | -657.468  | 15.603    | -0.661    | -0.001    | 0.001     | 0.001     | 0.001      | + |
| D2-2146.5                                                        | -657.503  | 15.600    | 0.355     | -657.504  | 15.600    | 0.355     | -0.001    | 0.001     | 0.001     | 0.001      | + |

| Vector Group<br>PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |       |   |
|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|---|
| Name                                                                             | Begin     |           |           | End       |           |           | Delta     |           |           | Mag   |   |
|                                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) |       |   |
| D2-2146.6                                                                        | -657.479  | 15.599    | 1.094     | -657.480  | 15.600    | 1.095     | -0.001    | 0.001     | 0.001     | 0.001 | + |
| D2-2146.7                                                                        | -657.443  | 15.596    | 2.000     | -657.444  | 15.597    | 2.001     | -0.001    | 0.001     | 0.001     | 0.001 | + |
| D2-2146.8                                                                        | -657.483  | 20.929    | 2.000     | -657.484  | 20.930    | 2.001     | -0.001    | 0.001     | 0.001     | 0.001 | + |
| D2-2146.9                                                                        | -657.491  | 20.927    | 1.075     | -657.492  | 20.927    | 1.076     | -0.001    | 0.001     | 0.001     | 0.001 | + |
| D2-2152.10                                                                       | -651.540  | 20.783    | 0.369     | -651.540  | 20.784    | 0.370     | -0.001    | 0.001     | 0.001     | 0.001 | + |
| D2-2152.2                                                                        | -651.703  | 17.146    | -1.432    | -651.704  | 17.147    | -1.431    | -0.001    | 0.001     | 0.001     | 0.001 | + |
| D2-2152.3                                                                        | -651.698  | 15.678    | -1.138    | -651.699  | 15.678    | -1.137    | -0.001    | 0.001     | 0.000     | 0.001 | + |
| D2-2152.4                                                                        | -651.717  | 15.675    | -0.653    | -651.718  | 15.675    | -0.652    | -0.001    | 0.001     | 0.000     | 0.001 | + |
| D2-2152.5                                                                        | -651.758  | 15.671    | 0.382     | -651.759  | 15.672    | 0.382     | -0.001    | 0.001     | 0.000     | 0.001 | + |
| D2-2152.6                                                                        | -651.740  | 15.668    | 1.107     | -651.741  | 15.668    | 1.107     | -0.001    | 0.001     | 0.001     | 0.001 | + |
| D2-2152.8                                                                        | -651.563  | 20.784    | 2.001     | -651.564  | 20.785    | 2.002     | -0.001    | 0.001     | 0.001     | 0.001 | + |
| D2-2152.9                                                                        | -651.551  | 20.782    | 1.097     | -651.552  | 20.783    | 1.097     | -0.001    | 0.001     | 0.001     | 0.001 | + |
| D2-2162.1                                                                        | -641.448  | 17.602    | -1.433    | -641.449  | 17.603    | -1.433    | -0.001    | 0.001     | 0.000     | 0.001 | + |
| D2-2162.2                                                                        | -641.457  | 15.824    | -1.427    | -641.458  | 15.825    | -1.426    | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2162.4                                                                        | -641.445  | 15.473    | -0.608    | -641.445  | 15.474    | -0.608    | -0.001    | 0.001     | 0.000     | 0.001 | + |
| D2-2162.5                                                                        | -641.448  | 15.498    | 0.368     | -641.448  | 15.498    | 0.369     | -0.001    | 0.001     | 0.000     | 0.001 | + |
| D2-2162.6                                                                        | -641.443  | 15.827    | 1.183     | -641.443  | 15.827    | 1.183     | -0.000    | 0.001     | 0.000     | 0.001 | + |
| D2-2162.8                                                                        | -641.314  | 20.183    | 1.303     | -641.314  | 20.183    | 1.303     | -0.001    | 0.001     | 0.000     | 0.001 | + |
| D2-2171.1                                                                        | -632.402  | 17.424    | -1.439    | -632.403  | 17.424    | -1.438    | -0.001    | 0.001     | 0.001     | 0.001 | + |
| D2-2171.2                                                                        | -632.422  | 15.643    | -1.436    | -632.423  | 15.644    | -1.435    | -0.001    | 0.001     | 0.001     | 0.001 | + |
| D2-2171.3                                                                        | -632.419  | 15.460    | -1.232    | -632.420  | 15.461    | -1.231    | -0.001    | 0.001     | 0.001     | 0.001 | + |
| D2-2171.4                                                                        | -632.428  | 15.266    | -0.614    | -632.429  | 15.266    | -0.613    | -0.001    | 0.001     | 0.001     | 0.001 | + |
| D2-2171.5                                                                        | -632.439  | 15.277    | 0.354     | -632.440  | 15.277    | 0.355     | -0.001    | 0.001     | 0.001     | 0.001 | + |
| D2-2171.6                                                                        | -632.439  | 15.668    | 1.293     | -632.440  | 15.668    | 1.294     | -0.001    | 0.001     | 0.001     | 0.001 | + |
| D2-2171.7                                                                        | -632.404  | 17.589    | 2.444     | -632.405  | 17.589    | 2.445     | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2171.8                                                                        | -632.327  | 20.011    | 1.302     | -632.329  | 20.012    | 1.303     | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2171.9                                                                        | -632.300  | 20.207    | -1.230    | -632.301  | 20.208    | -1.229    | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2180.1                                                                        | -623.448  | 17.219    | -1.429    | -623.449  | 17.219    | -1.428    | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2180.2                                                                        | -623.438  | 15.426    | -1.432    | -623.439  | 15.426    | -1.430    | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2180.3                                                                        | -623.437  | 15.259    | -1.236    | -623.438  | 15.259    | -1.234    | -0.001    | 0.000     | 0.002     | 0.002 | + |
| D2-2180.4                                                                        | -623.442  | 15.056    | -0.617    | -623.443  | 15.056    | -0.616    | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2180.5                                                                        | -623.447  | 15.057    | 0.350     | -623.448  | 15.057    | 0.351     | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2180.6                                                                        | -623.441  | 15.406    | 1.232     | -623.442  | 15.406    | 1.233     | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2180.7                                                                        | -623.384  | 17.419    | 2.462     | -623.385  | 17.419    | 2.463     | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2180.8                                                                        | -623.320  | 19.810    | 1.293     | -623.321  | 19.810    | 1.294     | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2180.9                                                                        | -623.308  | 19.989    | -1.232    | -623.310  | 19.992    | -1.227    | -0.002    | 0.003     | 0.005     | 0.006 | + |
| D2-2189.1                                                                        | -614.474  | 16.989    | -1.432    | -614.475  | 16.990    | -1.430    | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2189.2                                                                        | -614.437  | 15.201    | -1.428    | -614.438  | 15.201    | -1.427    | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2189.3                                                                        | -614.432  | 15.024    | -1.229    | -614.433  | 15.025    | -1.228    | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2189.4                                                                        | -614.430  | 14.829    | -0.612    | -614.431  | 14.829    | -0.611    | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2189.5                                                                        | -614.429  | 14.829    | 0.358     | -614.430  | 14.829    | 0.359     | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2189.6                                                                        | -614.425  | 15.187    | 1.261     | -614.426  | 15.187    | 1.262     | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2189.7                                                                        | -614.372  | 17.152    | 2.468     | -614.373  | 17.153    | 2.470     | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2189.8                                                                        | -614.328  | 19.575    | 1.310     | -614.329  | 19.575    | 1.311     | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2189.9                                                                        | -614.330  | 19.764    | -1.222    | -614.331  | 19.765    | -1.221    | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2198.1                                                                        | -605.418  | 16.779    | -1.425    | -605.419  | 16.780    | -1.423    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2198.2                                                                        | -605.434  | 14.986    | -1.430    | -605.435  | 14.987    | -1.429    | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2198.3                                                                        | -605.439  | 14.815    | -1.227    | -605.440  | 14.816    | -1.225    | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2198.4                                                                        | -605.444  | 14.625    | -0.614    | -605.446  | 14.626    | -0.612    | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2198.5                                                                        | -605.438  | 14.628    | 0.357     | -605.439  | 14.628    | 0.358     | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2198.6                                                                        | -605.425  | 14.988    | 1.259     | -605.426  | 14.988    | 1.261     | -0.001    | 0.001     | 0.001     | 0.002 | + |
| D2-2198.7                                                                        | -605.373  | 16.968    | 2.464     | -605.374  | 16.969    | 2.465     | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2198.8                                                                        | -605.324  | 19.363    | 1.299     | -605.325  | 19.364    | 1.301     | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2198.9                                                                        | -605.327  | 19.560    | -1.225    | -605.328  | 19.560    | -1.223    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2207.1                                                                        | -596.473  | 16.568    | -1.425    | -596.474  | 16.568    | -1.423    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2207.2                                                                        | -596.429  | 14.788    | -1.433    | -596.430  | 14.789    | -1.431    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2207.3                                                                        | -596.424  | 14.619    | -1.232    | -596.425  | 14.619    | -1.231    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2207.4                                                                        | -596.430  | 14.427    | -0.615    | -596.431  | 14.428    | -0.614    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2207.5                                                                        | -596.437  | 14.438    | 0.360     | -596.438  | 14.438    | 0.362     | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2207.6                                                                        | -596.435  | 14.808    | 1.261     | -596.436  | 14.808    | 1.263     | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2207.7                                                                        | -596.402  | 16.793    | 2.451     | -596.404  | 16.793    | 2.453     | -0.001    | 0.001     | 0.002     | 0.002 | + |

| Vector Group<br>PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |       |   |
|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|---|
| Name                                                                             | Begin     |           |           | End       |           |           | Delta     |           |           | Mag   |   |
|                                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) |       |   |
| D2-2207.8                                                                        | -596.350  | 19.167    | 1.304     | -596.351  | 19.168    | 1.306     | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2207.9                                                                        | -596.332  | 19.370    | -1.227    | -596.333  | 19.370    | -1.225    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2216.1                                                                        | -587.431  | 16.401    | -1.430    | -587.432  | 16.402    | -1.428    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2216.2                                                                        | -587.453  | 14.605    | -1.430    | -587.454  | 14.606    | -1.428    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2216.3                                                                        | -587.442  | 14.432    | -1.235    | -587.444  | 14.433    | -1.233    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2216.4                                                                        | -587.443  | 14.230    | -0.614    | -587.444  | 14.231    | -0.612    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2216.5                                                                        | -587.449  | 14.227    | 0.357     | -587.450  | 14.228    | 0.359     | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2216.6                                                                        | -587.445  | 14.586    | 1.265     | -587.446  | 14.586    | 1.267     | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2216.7                                                                        | -587.394  | 16.592    | 2.477     | -587.395  | 16.593    | 2.479     | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2216.8                                                                        | -587.335  | 18.969    | 1.306     | -587.336  | 18.969    | 1.307     | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2216.9                                                                        | -587.323  | 19.155    | -1.234    | -587.325  | 19.156    | -1.232    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2225.1                                                                        | -578.405  | 16.190    | -1.428    | -578.406  | 16.191    | -1.426    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2225.2                                                                        | -578.433  | 14.407    | -1.426    | -578.434  | 14.407    | -1.424    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2225.3                                                                        | -578.437  | 14.230    | -1.225    | -578.438  | 14.231    | -1.223    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2225.4                                                                        | -578.438  | 14.025    | -0.614    | -578.439  | 14.026    | -0.612    | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2225.5                                                                        | -578.444  | 14.013    | 0.356     | -578.445  | 14.013    | 0.358     | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2225.6                                                                        | -578.440  | 14.387    | 1.312     | -578.441  | 14.388    | 1.314     | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2225.7                                                                        | -578.402  | 16.384    | 2.506     | -578.403  | 16.384    | 2.508     | -0.001    | 0.001     | 0.002     | 0.002 | + |
| D2-2225.8                                                                        | -578.348  | 18.768    | 1.315     | -578.349  | 18.769    | 1.317     | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2225.9                                                                        | -578.333  | 18.938    | -1.223    | -578.334  | 18.939    | -1.221    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2234.1                                                                        | -569.345  | 15.976    | -1.422    | -569.346  | 15.976    | -1.420    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2234.10                                                                       | -567.715  | 17.123    | -1.433    | -567.716  | 17.124    | -1.431    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2234.2                                                                        | -569.405  | 14.207    | -1.423    | -569.406  | 14.208    | -1.421    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2234.3                                                                        | -569.452  | 13.958    | -1.114    | -569.453  | 13.959    | -1.111    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2234.4                                                                        | -569.450  | 13.808    | -0.626    | -569.452  | 13.809    | -0.624    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2234.5                                                                        | -569.451  | 13.797    | 0.359     | -569.452  | 13.798    | 0.361     | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2234.6                                                                        | -569.444  | 14.161    | 1.288     | -569.445  | 14.162    | 1.290     | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2234.7                                                                        | -569.389  | 16.172    | 2.497     | -569.390  | 16.173    | 2.499     | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2234.8                                                                        | -569.341  | 18.575    | 1.298     | -569.342  | 18.576    | 1.300     | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2234.9                                                                        | -569.339  | 18.780    | -1.117    | -569.340  | 18.780    | -1.114    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2243.1                                                                        | -560.388  | 15.778    | -1.430    | -560.389  | 15.779    | -1.428    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2243.10                                                                       | -561.656  | 17.005    | -1.425    | -561.657  | 17.005    | -1.423    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2243.2                                                                        | -560.412  | 13.993    | -1.431    | -560.413  | 13.993    | -1.428    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2243.3                                                                        | -560.453  | 13.759    | -1.122    | -560.454  | 13.759    | -1.120    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2243.4                                                                        | -560.451  | 13.606    | -0.632    | -560.453  | 13.607    | -0.630    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2243.5                                                                        | -560.452  | 13.592    | 0.358     | -560.453  | 13.592    | 0.361     | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2243.6                                                                        | -560.446  | 13.951    | 1.287     | -560.448  | 13.952    | 1.289     | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2243.7                                                                        | -560.393  | 15.960    | 2.498     | -560.394  | 15.960    | 2.501     | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2243.8                                                                        | -560.342  | 18.371    | 1.294     | -560.343  | 18.371    | 1.296     | -0.001    | 0.001     | 0.003     | 0.003 | + |
| D2-2243.9                                                                        | -560.342  | 18.573    | -1.123    | -560.343  | 18.573    | -1.120    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2252.1                                                                        | -551.430  | 15.556    | -1.430    | -551.431  | 15.556    | -1.427    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2252.2                                                                        | -551.446  | 13.778    | -1.432    | -551.447  | 13.779    | -1.429    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2252.3                                                                        | -551.455  | 13.552    | -1.131    | -551.456  | 13.552    | -1.128    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2252.4                                                                        | -551.456  | 13.392    | -0.630    | -551.457  | 13.392    | -0.628    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2252.5                                                                        | -551.456  | 13.374    | 0.352     | -551.457  | 13.375    | 0.354     | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2252.6                                                                        | -551.445  | 13.731    | 1.285     | -551.446  | 13.731    | 1.287     | -0.001    | 0.000     | 0.002     | 0.003 | + |
| D2-2252.7                                                                        | -551.394  | 15.754    | 2.495     | -551.395  | 15.754    | 2.497     | -0.001    | 0.000     | 0.002     | 0.003 | + |
| D2-2252.8                                                                        | -551.346  | 18.163    | 1.288     | -551.347  | 18.164    | 1.290     | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2252.9                                                                        | -551.347  | 18.365    | -1.123    | -551.348  | 18.366    | -1.120    | -0.001    | 0.001     | 0.003     | 0.003 | + |
| D2-2261.1                                                                        | -542.439  | 15.352    | -1.426    | -542.440  | 15.352    | -1.423    | -0.001    | 0.001     | 0.003     | 0.003 | + |
| D2-2261.10                                                                       | -543.329  | 16.599    | -1.425    | -543.330  | 16.600    | -1.423    | -0.001    | 0.001     | 0.003     | 0.003 | + |
| D2-2261.2                                                                        | -542.459  | 13.565    | -1.428    | -542.460  | 13.565    | -1.426    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2261.3                                                                        | -542.461  | 13.337    | -1.121    | -542.462  | 13.338    | -1.118    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2261.4                                                                        | -542.459  | 13.188    | -0.619    | -542.460  | 13.188    | -0.616    | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2261.5                                                                        | -542.458  | 13.181    | 0.371     | -542.460  | 13.181    | 0.373     | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2261.6                                                                        | -542.448  | 13.529    | 1.266     | -542.449  | 13.530    | 1.269     | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2261.7                                                                        | -542.397  | 15.554    | 2.486     | -542.398  | 15.555    | 2.489     | -0.001    | 0.001     | 0.002     | 0.003 | + |
| D2-2261.8                                                                        | -542.347  | 17.947    | 1.294     | -542.348  | 17.948    | 1.296     | -0.001    | 0.001     | 0.003     | 0.003 | + |
| D2-2261.9                                                                        | -542.351  | 18.161    | -1.123    | -542.352  | 18.161    | -1.121    | -0.001    | 0.001     | 0.003     | 0.003 | + |
| D2-2270.1                                                                        | -533.405  | 15.144    | -1.423    | -533.406  | 15.144    | -1.420    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2270.2                                                                        | -533.459  | 13.353    | -1.426    | -533.460  | 13.353    | -1.423    | -0.001    | 0.000     | 0.003     | 0.003 | + |



| Vector Group<br>PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |       |   |
|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|---|
| Name                                                                             | Begin     |           |           | End       |           |           | Delta     |           |           | Mag   |   |
|                                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) |       |   |
| D2-2270.3                                                                        | -533.460  | 13.132    | -1.122    | -533.461  | 13.133    | -1.119    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2270.4                                                                        | -533.461  | 12.985    | -0.625    | -533.463  | 12.985    | -0.623    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2270.5                                                                        | -533.460  | 12.980    | 0.366     | -533.461  | 12.981    | 0.369     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2270.6                                                                        | -533.452  | 13.329    | 1.253     | -533.453  | 13.329    | 1.256     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2270.7                                                                        | -533.400  | 15.348    | 2.479     | -533.401  | 15.349    | 2.481     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2270.8                                                                        | -533.348  | 17.745    | 1.289     | -533.350  | 17.746    | 1.292     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2270.9                                                                        | -533.354  | 17.969    | -1.116    | -533.355  | 17.969    | -1.113    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2279.10                                                                       | -525.034  | 16.212    | -1.427    | -525.035  | 16.213    | -1.425    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2279.1                                                                        | -524.494  | 14.971    | -1.430    | -524.495  | 14.971    | -1.428    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2279.2                                                                        | -524.481  | 13.201    | -1.428    | -524.482  | 13.201    | -1.425    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2279.3                                                                        | -524.472  | 12.933    | -1.120    | -524.473  | 12.934    | -1.117    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2279.4                                                                        | -524.467  | 12.782    | -0.624    | -524.468  | 12.782    | -0.621    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2279.5                                                                        | -524.466  | 12.774    | 0.369     | -524.467  | 12.774    | 0.372     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2279.6                                                                        | -524.454  | 13.109    | 1.244     | -524.455  | 13.109    | 1.247     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2279.7                                                                        | -524.400  | 15.141    | 2.482     | -524.401  | 15.141    | 2.485     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2279.8                                                                        | -524.348  | 17.539    | 1.296     | -524.349  | 17.539    | 1.299     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2279.9                                                                        | -524.351  | 17.762    | -1.112    | -524.352  | 17.762    | -1.109    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2288.1                                                                        | -515.329  | 14.737    | -1.427    | -515.330  | 14.737    | -1.424    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2288.2                                                                        | -515.432  | 12.963    | -1.429    | -515.433  | 12.964    | -1.426    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2288.3                                                                        | -515.469  | 12.730    | -1.127    | -515.470  | 12.730    | -1.124    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2288.4                                                                        | -515.467  | 12.579    | -0.624    | -515.468  | 12.579    | -0.621    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2288.5                                                                        | -515.470  | 12.570    | 0.367     | -515.471  | 12.571    | 0.370     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2288.6                                                                        | -515.460  | 12.898    | 1.227     | -515.461  | 12.898    | 1.230     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2288.7                                                                        | -515.409  | 14.937    | 2.484     | -515.410  | 14.938    | 2.486     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2288.8                                                                        | -515.353  | 17.334    | 1.293     | -515.354  | 17.334    | 1.296     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2288.9                                                                        | -515.351  | 17.550    | -1.122    | -515.352  | 17.550    | -1.120    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2297.1                                                                        | -506.445  | 14.529    | -1.433    | -506.446  | 14.530    | -1.431    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2297.10                                                                       | -506.416  | 15.786    | -1.437    | -506.417  | 15.787    | -1.434    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2297.2                                                                        | -506.460  | 12.762    | -1.430    | -506.461  | 12.762    | -1.427    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2297.3                                                                        | -506.473  | 12.527    | -1.133    | -506.474  | 12.527    | -1.130    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2297.4                                                                        | -506.470  | 12.370    | -0.632    | -506.471  | 12.370    | -0.629    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2297.5                                                                        | -506.470  | 12.359    | 0.363     | -506.471  | 12.360    | 0.366     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2297.6                                                                        | -506.467  | 12.682    | 1.219     | -506.468  | 12.682    | 1.221     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2297.7                                                                        | -506.413  | 14.727    | 2.486     | -506.414  | 14.727    | 2.489     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2297.8                                                                        | -506.357  | 17.119    | 1.295     | -506.358  | 17.119    | 1.298     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2297.9                                                                        | -506.353  | 17.345    | -1.123    | -506.354  | 17.345    | -1.120    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2306.1                                                                        | -497.475  | 14.319    | -1.432    | -497.476  | 14.319    | -1.429    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2306.2                                                                        | -497.479  | 12.522    | -1.433    | -497.480  | 12.522    | -1.430    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2306.3                                                                        | -497.477  | 12.305    | -1.133    | -497.477  | 12.305    | -1.130    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2306.4                                                                        | -497.474  | 12.153    | -0.628    | -497.475  | 12.153    | -0.626    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2306.5                                                                        | -497.475  | 12.148    | 0.368     | -497.476  | 12.148    | 0.371     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2306.6                                                                        | -497.470  | 12.471    | 1.216     | -497.471  | 12.471    | 1.219     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2306.7                                                                        | -497.415  | 14.507    | 2.478     | -497.416  | 14.507    | 2.480     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2306.8                                                                        | -497.361  | 16.913    | 1.294     | -497.362  | 16.913    | 1.297     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2306.9                                                                        | -497.360  | 17.146    | -1.086    | -497.361  | 17.147    | -1.083    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2315.1                                                                        | -488.380  | 14.178    | -1.428    | -488.381  | 14.178    | -1.425    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2315.10                                                                       | -488.322  | 15.352    | -1.430    | -488.323  | 15.353    | -1.427    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2315.2                                                                        | -488.466  | 12.341    | -1.432    | -488.467  | 12.341    | -1.429    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2315.3                                                                        | -488.476  | 12.101    | -1.133    | -488.477  | 12.101    | -1.130    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2315.4                                                                        | -488.475  | 11.943    | -0.623    | -488.476  | 11.944    | -0.620    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2315.5                                                                        | -488.475  | 11.938    | 0.366     | -488.476  | 11.938    | 0.369     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2315.6                                                                        | -488.471  | 12.257    | 1.209     | -488.472  | 12.257    | 1.212     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2315.7                                                                        | -488.419  | 14.308    | 2.478     | -488.420  | 14.308    | 2.481     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2315.8                                                                        | -488.362  | 16.701    | 1.289     | -488.363  | 16.701    | 1.292     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2315.9                                                                        | -488.361  | 16.926    | -1.119    | -488.362  | 16.926    | -1.116    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2324.1                                                                        | -479.364  | 13.894    | -1.426    | -479.365  | 13.894    | -1.423    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2324.2                                                                        | -479.472  | 12.137    | -1.427    | -479.473  | 12.137    | -1.424    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2324.3                                                                        | -479.480  | 11.896    | -1.123    | -479.481  | 11.896    | -1.119    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2324.4                                                                        | -479.480  | 11.741    | -0.612    | -479.481  | 11.741    | -0.609    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2324.5                                                                        | -479.483  | 11.743    | 0.385     | -479.484  | 11.743    | 0.388     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2324.6                                                                        | -479.478  | 12.114    | 1.301     | -479.479  | 12.114    | 1.304     | -0.001    | 0.000     | 0.003     | 0.003 | + |

| Vector Group<br>PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |       |   |
|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|---|
| Name                                                                             | Begin     |           |           | End       |           |           | Delta     |           |           | Mag   |   |
|                                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) |       |   |
| D2-2324.7                                                                        | -479.428  | 14.101    | 2.477     | -479.429  | 14.101    | 2.480     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2324.8                                                                        | -479.367  | 16.506    | 1.285     | -479.368  | 16.506    | 1.288     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2324.9                                                                        | -479.360  | 16.729    | -1.128    | -479.361  | 16.729    | -1.125    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2333.10                                                                       | -470.178  | 14.912    | -1.420    | -470.178  | 14.912    | -1.417    | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2333.1                                                                        | -470.400  | 13.666    | -1.428    | -470.401  | 13.666    | -1.425    | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2333.2                                                                        | -470.483  | 11.903    | -1.423    | -470.484  | 11.903    | -1.419    | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2333.3                                                                        | -470.481  | 11.665    | -1.126    | -470.482  | 11.665    | -1.123    | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2333.4                                                                        | -470.482  | 11.514    | -0.616    | -470.483  | 11.514    | -0.613    | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2333.5                                                                        | -470.484  | 11.516    | 0.377     | -470.485  | 11.516    | 0.380     | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2333.6                                                                        | -470.475  | 11.845    | 1.223     | -470.476  | 11.845    | 1.226     | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2333.7                                                                        | -470.423  | 13.888    | 2.468     | -470.424  | 13.888    | 2.471     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2333.8                                                                        | -470.372  | 16.268    | 1.293     | -470.373  | 16.268    | 1.296     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2333.9                                                                        | -470.371  | 16.517    | -1.085    | -470.372  | 16.517    | -1.082    | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2342.1                                                                        | -461.393  | 13.470    | -1.427    | -461.394  | 13.470    | -1.423    | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2342.2                                                                        | -461.486  | 11.712    | -1.432    | -461.487  | 11.712    | -1.429    | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2342.3                                                                        | -461.485  | 11.455    | -1.122    | -461.486  | 11.455    | -1.119    | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2342.4                                                                        | -461.485  | 11.310    | -0.627    | -461.486  | 11.310    | -0.624    | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2342.5                                                                        | -461.491  | 11.314    | 0.370     | -461.491  | 11.314    | 0.373     | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2342.6                                                                        | -461.481  | 11.651    | 1.226     | -461.482  | 11.651    | 1.229     | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2342.7                                                                        | -461.433  | 13.672    | 2.465     | -461.434  | 13.672    | 2.469     | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2342.8                                                                        | -461.383  | 16.067    | 1.292     | -461.384  | 16.067    | 1.296     | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2342.9                                                                        | -461.372  | 16.312    | -1.093    | -461.373  | 16.312    | -1.090    | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2351.1                                                                        | -452.401  | 13.255    | -1.424    | -452.402  | 13.255    | -1.421    | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2351.10                                                                       | -451.899  | 14.513    | -1.432    | -451.900  | 14.513    | -1.429    | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2351.2                                                                        | -452.491  | 11.488    | -1.433    | -452.491  | 11.488    | -1.429    | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2351.3                                                                        | -452.505  | 11.255    | -1.128    | -452.506  | 11.255    | -1.125    | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2351.4                                                                        | -452.497  | 11.106    | -0.629    | -452.498  | 11.106    | -0.626    | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2351.5                                                                        | -452.496  | 11.107    | 0.367     | -452.497  | 11.107    | 0.370     | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2351.6                                                                        | -452.487  | 11.447    | 1.232     | -452.488  | 11.447    | 1.235     | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2351.7                                                                        | -452.424  | 13.473    | 2.470     | -452.425  | 13.473    | 2.473     | -0.001    | 0.000     | 0.003     | 0.003 | + |
| D2-2351.8                                                                        | -452.368  | 15.853    | 1.293     | -452.369  | 15.853    | 1.296     | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2351.9                                                                        | -452.371  | 16.103    | -1.092    | -452.372  | 16.102    | -1.089    | -0.001    | -0.000    | 0.003     | 0.003 | + |
| D2-2360.1                                                                        | -443.393  | 13.031    | -1.431    | -443.393  | 13.030    | -1.427    | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2360.10                                                                       | -445.751  | 14.338    | -1.431    | -445.752  | 14.338    | -1.428    | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2360.2                                                                        | -443.486  | 11.257    | -1.433    | -443.487  | 11.257    | -1.430    | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2360.3                                                                        | -443.492  | 11.036    | -1.137    | -443.492  | 11.035    | -1.134    | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2360.4                                                                        | -443.490  | 10.883    | -0.620    | -443.491  | 10.882    | -0.616    | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2360.5                                                                        | -443.492  | 10.890    | 0.370     | -443.492  | 10.889    | 0.374     | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2360.6                                                                        | -443.484  | 11.222    | 1.215     | -443.485  | 11.222    | 1.218     | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2360.7                                                                        | -443.437  | 13.259    | 2.468     | -443.438  | 13.259    | 2.472     | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2360.8                                                                        | -443.381  | 15.636    | 1.300     | -443.382  | 15.636    | 1.304     | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2360.9                                                                        | -443.375  | 15.875    | -1.116    | -443.376  | 15.875    | -1.113    | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2369.10                                                                       | -433.615  | 14.096    | -1.432    | -433.616  | 14.096    | -1.429    | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2369.1                                                                        | -434.416  | 12.823    | -1.430    | -434.417  | 12.823    | -1.427    | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2369.2                                                                        | -434.494  | 11.072    | -1.431    | -434.495  | 11.072    | -1.428    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2369.3                                                                        | -434.492  | 10.828    | -1.148    | -434.493  | 10.828    | -1.144    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2369.4                                                                        | -434.497  | 10.676    | -0.626    | -434.497  | 10.675    | -0.623    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2369.5                                                                        | -434.499  | 10.683    | 0.368     | -434.499  | 10.683    | 0.372     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2369.6                                                                        | -434.485  | 11.009    | 1.200     | -434.486  | 11.009    | 1.203     | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2369.7                                                                        | -434.439  | 13.052    | 2.456     | -434.440  | 13.052    | 2.459     | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2369.8                                                                        | -434.386  | 15.431    | 1.289     | -434.386  | 15.431    | 1.293     | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2369.9                                                                        | -434.384  | 15.667    | -1.120    | -434.385  | 15.667    | -1.117    | -0.001    | -0.000    | 0.003     | 0.004 | + |
| D2-2378.1                                                                        | -425.435  | 12.619    | -1.429    | -425.435  | 12.619    | -1.426    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2378.10                                                                       | -427.529  | 13.938    | -1.425    | -427.530  | 13.937    | -1.422    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2378.2                                                                        | -425.490  | 10.848    | -1.434    | -425.491  | 10.848    | -1.430    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2378.3                                                                        | -425.497  | 10.617    | -1.141    | -425.498  | 10.617    | -1.137    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2378.4                                                                        | -425.496  | 10.456    | -0.599    | -425.497  | 10.455    | -0.595    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2378.5                                                                        | -425.497  | 10.473    | 0.389     | -425.498  | 10.472    | 0.393     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2378.6                                                                        | -425.492  | 10.795    | 1.202     | -425.493  | 10.795    | 1.205     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2378.7                                                                        | -425.445  | 12.834    | 2.459     | -425.446  | 12.834    | 2.463     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2378.8                                                                        | -425.390  | 15.215    | 1.294     | -425.391  | 15.215    | 1.298     | -0.001    | -0.000    | 0.004     | 0.004 | + |

| Vector Group<br>PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |       |   |
|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|---|
| Name                                                                             | Begin     |           |           | End       |           |           | Delta     |           |           | Mag   |   |
|                                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) |       |   |
| D2-2378.9                                                                        | -425.385  | 15.473    | -1.083    | -425.386  | 15.473    | -1.080    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2387.10                                                                       | -415.311  | 13.598    | -1.434    | -415.311  | 13.598    | -1.430    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2387.1                                                                        | -416.475  | 12.418    | -1.429    | -416.476  | 12.418    | -1.425    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2387.2                                                                        | -416.506  | 10.647    | -1.428    | -416.507  | 10.647    | -1.424    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2387.3                                                                        | -416.505  | 10.414    | -1.112    | -416.506  | 10.414    | -1.108    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2387.4                                                                        | -416.509  | 10.266    | -0.619    | -416.510  | 10.265    | -0.615    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2387.5                                                                        | -416.504  | 10.268    | 0.373     | -416.505  | 10.268    | 0.377     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2387.6                                                                        | -416.496  | 10.612    | 1.243     | -416.497  | 10.612    | 1.246     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2387.7                                                                        | -416.448  | 12.640    | 2.475     | -416.449  | 12.640    | 2.479     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2387.8                                                                        | -416.395  | 15.020    | 1.296     | -416.396  | 15.020    | 1.300     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2387.9                                                                        | -416.390  | 15.265    | -1.090    | -416.391  | 15.265    | -1.086    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2396.1                                                                        | -407.441  | 12.217    | -1.433    | -407.442  | 12.217    | -1.429    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2396.10                                                                       | -409.199  | 13.473    | -1.429    | -409.200  | 13.472    | -1.425    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2396.2                                                                        | -407.495  | 10.437    | -1.433    | -407.496  | 10.437    | -1.429    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2396.3                                                                        | -407.507  | 10.205    | -1.136    | -407.507  | 10.205    | -1.132    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2396.4                                                                        | -407.505  | 10.053    | -0.631    | -407.506  | 10.053    | -0.627    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2396.5                                                                        | -407.509  | 10.053    | 0.367     | -407.510  | 10.053    | 0.370     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2396.6                                                                        | -407.502  | 10.404    | 1.250     | -407.502  | 10.404    | 1.254     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2396.7                                                                        | -407.450  | 12.427    | 2.476     | -407.451  | 12.427    | 2.480     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2396.8                                                                        | -407.400  | 14.819    | 1.287     | -407.401  | 14.819    | 1.290     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2396.9                                                                        | -407.393  | 15.048    | -1.100    | -407.394  | 15.048    | -1.096    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2405.10                                                                       | -397.003  | 13.218    | -1.427    | -397.004  | 13.217    | -1.424    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2405.1                                                                        | -398.429  | 12.010    | -1.427    | -398.430  | 12.010    | -1.423    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2405.2                                                                        | -398.493  | 10.234    | -1.430    | -398.494  | 10.234    | -1.426    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2405.3                                                                        | -398.500  | 9.996     | -1.125    | -398.500  | 9.996     | -1.121    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2405.4                                                                        | -398.510  | 9.846     | -0.622    | -398.510  | 9.846     | -0.618    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2405.5                                                                        | -398.512  | 9.848     | 0.369     | -398.513  | 9.848     | 0.373     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2405.6                                                                        | -398.504  | 10.191    | 1.238     | -398.505  | 10.191    | 1.242     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2405.7                                                                        | -398.455  | 12.223    | 2.478     | -398.455  | 12.223    | 2.481     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2405.8                                                                        | -398.401  | 14.605    | 1.295     | -398.401  | 14.605    | 1.298     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2405.9                                                                        | -398.396  | 14.835    | -1.124    | -398.397  | 14.835    | -1.120    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2414.1                                                                        | -389.429  | 11.810    | -1.432    | -389.429  | 11.810    | -1.428    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2414.10                                                                       | -390.891  | 13.124    | -1.425    | -390.892  | 13.124    | -1.421    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2414.2                                                                        | -389.497  | 10.030    | -1.433    | -389.498  | 10.030    | -1.429    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2414.3                                                                        | -389.509  | 9.790     | -1.109    | -389.510  | 9.790     | -1.105    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2414.4                                                                        | -389.510  | 9.646     | -0.600    | -389.510  | 9.646     | -0.595    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2414.5                                                                        | -389.516  | 9.651     | 0.387     | -389.516  | 9.651     | 0.391     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2414.6                                                                        | -389.509  | 10.006    | 1.270     | -389.510  | 10.006    | 1.274     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2414.7                                                                        | -389.460  | 12.010    | 2.475     | -389.461  | 12.010    | 2.479     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2414.8                                                                        | -389.407  | 14.395    | 1.302     | -389.408  | 14.395    | 1.306     | -0.001    | 0.000     | 0.004     | 0.004 | + |
| D2-2414.9                                                                        | -389.398  | 14.645    | -1.082    | -389.399  | 14.645    | -1.079    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2423.1                                                                        | -380.444  | 11.604    | -1.429    | -380.445  | 11.604    | -1.425    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2423.2                                                                        | -380.496  | 9.830     | -1.435    | -380.496  | 9.830     | -1.431    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2423.3                                                                        | -380.509  | 9.580     | -1.092    | -380.510  | 9.580     | -1.088    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2423.4                                                                        | -380.520  | 9.437     | -0.634    | -380.521  | 9.437     | -0.630    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2423.5                                                                        | -380.522  | 9.435     | 0.358     | -380.523  | 9.435     | 0.362     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2423.6                                                                        | -380.514  | 9.785     | 1.247     | -380.514  | 9.785     | 1.251     | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2423.7                                                                        | -380.471  | 11.804    | 2.475     | -380.471  | 11.804    | 2.479     | -0.001    | 0.000     | 0.004     | 0.004 | + |
| D2-2423.8                                                                        | -380.403  | 14.199    | 1.295     | -380.404  | 14.199    | 1.299     | -0.001    | 0.000     | 0.004     | 0.004 | + |
| D2-2423.9                                                                        | -380.393  | 14.428    | -1.115    | -380.393  | 14.428    | -1.111    | -0.001    | 0.000     | 0.004     | 0.004 | + |
| D2-2432.1                                                                        | -371.453  | 11.382    | -1.431    | -371.453  | 11.382    | -1.427    | -0.001    | 0.000     | 0.004     | 0.004 | + |
| D2-2432.10                                                                       | -372.676  | 12.706    | -1.430    | -372.677  | 12.706    | -1.426    | -0.001    | 0.000     | 0.004     | 0.004 | + |
| D2-2432.2                                                                        | -371.512  | 9.620     | -1.432    | -371.512  | 9.620     | -1.428    | -0.001    | 0.000     | 0.004     | 0.004 | + |
| D2-2432.3                                                                        | -371.513  | 9.358     | -1.086    | -371.514  | 9.358     | -1.082    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2432.4                                                                        | -371.516  | 9.217     | -0.628    | -371.517  | 9.217     | -0.624    | -0.001    | -0.000    | 0.004     | 0.004 | + |
| D2-2432.5                                                                        | -371.518  | 9.208     | 0.361     | -371.519  | 9.208     | 0.365     | -0.001    | 0.000     | 0.004     | 0.004 | + |
| D2-2432.6                                                                        | -371.509  | 9.572     | 1.282     | -371.509  | 9.572     | 1.287     | -0.001    | 0.000     | 0.004     | 0.004 | + |
| D2-2432.7                                                                        | -371.458  | 11.581    | 2.485     | -371.458  | 11.582    | 2.489     | -0.001    | 0.000     | 0.004     | 0.004 | + |
| D2-2432.8                                                                        | -371.408  | 13.981    | 1.299     | -371.408  | 13.982    | 1.303     | -0.001    | 0.000     | 0.004     | 0.004 | + |
| D2-2432.9                                                                        | -371.409  | 14.209    | -1.089    | -371.410  | 14.209    | -1.085    | -0.001    | 0.000     | 0.004     | 0.004 | + |
| D2-2441.1                                                                        | -362.474  | 11.171    | -1.433    | -362.474  | 11.171    | -1.428    | -0.001    | 0.000     | 0.004     | 0.004 | + |



| Vector Group<br>PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |            |   |
|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|---|
| Name                                                                             | Begin     |           |           | End       |           |           | Delta     |           |           |            |   |
|                                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) | Mag<br>(m) |   |
| D2-2441.2                                                                        | -362.506  | 9.409     | -1.434    | -362.506  | 9.409     | -1.429    | -0.001    | 0.000     | 0.004     | 0.004      | + |
| D2-2441.3                                                                        | -362.515  | 9.169     | -1.128    | -362.515  | 9.169     | -1.124    | -0.001    | 0.000     | 0.004     | 0.004      | + |
| D2-2441.4                                                                        | -362.514  | 9.014     | -0.626    | -362.515  | 9.014     | -0.622    | -0.001    | 0.000     | 0.004     | 0.004      | + |
| D2-2441.5                                                                        | -362.519  | 9.005     | 0.361     | -362.520  | 9.005     | 0.366     | -0.001    | 0.000     | 0.004     | 0.004      | + |
| D2-2441.6                                                                        | -362.513  | 9.373     | 1.296     | -362.514  | 9.373     | 1.300     | -0.001    | 0.000     | 0.004     | 0.004      | + |
| D2-2441.7                                                                        | -362.468  | 11.374    | 2.497     | -362.469  | 11.374    | 2.501     | -0.001    | 0.000     | 0.004     | 0.004      | + |
| D2-2441.8                                                                        | -362.418  | 13.777    | 1.300     | -362.418  | 13.777    | 1.304     | -0.001    | 0.000     | 0.004     | 0.004      | + |
| D2-2441.9                                                                        | -362.406  | 13.988    | -1.120    | -362.407  | 13.988    | -1.116    | -0.001    | 0.000     | 0.004     | 0.004      | + |
| D2-2450.10                                                                       | -354.331  | 12.265    | -1.437    | -354.331  | 12.265    | -1.433    | -0.001    | 0.000     | 0.004     | 0.004      | + |
| D2-2450.1                                                                        | -353.469  | 10.975    | -1.436    | -353.470  | 10.975    | -1.432    | -0.001    | 0.000     | 0.004     | 0.004      | + |
| D2-2450.2                                                                        | -353.531  | 9.218     | -1.435    | -353.532  | 9.218     | -1.431    | -0.001    | 0.000     | 0.004     | 0.005      | + |
| D2-2450.3                                                                        | -353.525  | 8.962     | -1.137    | -353.526  | 8.962     | -1.132    | -0.001    | 0.000     | 0.004     | 0.005      | + |
| D2-2450.4                                                                        | -353.528  | 8.810     | -0.632    | -353.529  | 8.810     | -0.627    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2450.5                                                                        | -353.527  | 8.802     | 0.360     | -353.528  | 8.802     | 0.365     | -0.001    | 0.000     | 0.004     | 0.005      | + |
| D2-2450.6                                                                        | -353.518  | 9.157     | 1.265     | -353.519  | 9.157     | 1.270     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2450.7                                                                        | -353.465  | 11.168    | 2.477     | -353.466  | 11.168    | 2.481     | -0.001    | 0.000     | 0.004     | 0.004      | + |
| D2-2450.8                                                                        | -353.408  | 13.568    | 1.289     | -353.409  | 13.569    | 1.293     | -0.001    | 0.000     | 0.004     | 0.004      | + |
| D2-2450.9                                                                        | -353.408  | 13.800    | -1.098    | -353.408  | 13.800    | -1.094    | -0.001    | 0.000     | 0.004     | 0.004      | + |
| D2-2459.1                                                                        | -344.457  | 10.772    | -1.431    | -344.458  | 10.772    | -1.426    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2459.2                                                                        | -344.519  | 8.984     | -1.429    | -344.519  | 8.984     | -1.424    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2459.3                                                                        | -344.522  | 8.747     | -1.125    | -344.523  | 8.747     | -1.121    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2459.4                                                                        | -344.520  | 8.598     | -0.620    | -344.521  | 8.598     | -0.615    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2459.5                                                                        | -344.523  | 8.598     | 0.372     | -344.524  | 8.598     | 0.376     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2459.6                                                                        | -344.515  | 8.977     | 1.301     | -344.516  | 8.977     | 1.305     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2459.7                                                                        | -344.474  | 10.966    | 2.483     | -344.475  | 10.966    | 2.488     | -0.001    | 0.000     | 0.004     | 0.005      | + |
| D2-2459.8                                                                        | -344.419  | 13.351    | 1.301     | -344.419  | 13.352    | 1.305     | -0.001    | 0.000     | 0.004     | 0.005      | + |
| D2-2459.9                                                                        | -344.416  | 13.589    | -1.088    | -344.416  | 13.590    | -1.084    | -0.001    | 0.000     | 0.004     | 0.005      | + |
| D2-2468.1                                                                        | -335.444  | 10.576    | -1.426    | -335.444  | 10.576    | -1.422    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2468.2                                                                        | -335.527  | 8.789     | -1.431    | -335.527  | 8.789     | -1.427    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2468.3                                                                        | -335.523  | 8.546     | -1.099    | -335.523  | 8.546     | -1.094    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2468.4                                                                        | -335.522  | 8.402     | -0.624    | -335.522  | 8.403     | -0.619    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2468.5                                                                        | -335.526  | 8.400     | 0.361     | -335.527  | 8.400     | 0.366     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2468.6                                                                        | -335.519  | 8.780     | 1.300     | -335.520  | 8.780     | 1.304     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2468.7                                                                        | -335.476  | 10.763    | 2.476     | -335.477  | 10.763    | 2.480     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2468.8                                                                        | -335.425  | 13.166    | 1.293     | -335.425  | 13.166    | 1.298     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2468.9                                                                        | -335.417  | 13.400    | -1.090    | -335.418  | 13.401    | -1.085    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2477.1                                                                        | -326.445  | 10.364    | -1.418    | -326.446  | 10.365    | -1.413    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2477.2                                                                        | -326.489  | 8.605     | -1.430    | -326.490  | 8.605     | -1.425    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2477.3                                                                        | -326.525  | 8.348     | -1.100    | -326.525  | 8.348     | -1.095    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2477.4                                                                        | -326.525  | 8.208     | -0.627    | -326.526  | 8.208     | -0.622    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2477.5                                                                        | -326.531  | 8.200     | 0.362     | -326.531  | 8.200     | 0.367     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2477.6                                                                        | -326.526  | 8.563     | 1.282     | -326.527  | 8.563     | 1.287     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2477.7                                                                        | -326.477  | 10.575    | 2.483     | -326.478  | 10.576    | 2.488     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2477.8                                                                        | -326.428  | 12.970    | 1.295     | -326.429  | 12.970    | 1.300     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2477.9                                                                        | -326.419  | 13.201    | -1.087    | -326.420  | 13.201    | -1.082    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2486.1                                                                        | -317.484  | 10.175    | -1.423    | -317.485  | 10.175    | -1.418    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2486.2                                                                        | -317.500  | 8.409     | -1.422    | -317.501  | 8.409     | -1.417    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2486.3                                                                        | -317.524  | 8.162     | -1.118    | -317.525  | 8.162     | -1.113    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2486.4                                                                        | -317.530  | 8.014     | -0.618    | -317.530  | 8.014     | -0.613    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2486.5                                                                        | -317.531  | 8.013     | 0.374     | -317.532  | 8.013     | 0.379     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2486.6                                                                        | -317.524  | 8.365     | 1.264     | -317.525  | 8.366     | 1.269     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2486.7                                                                        | -317.480  | 10.372    | 2.484     | -317.481  | 10.373    | 2.489     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2486.8                                                                        | -317.431  | 12.780    | 1.294     | -317.432  | 12.780    | 1.299     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2486.9                                                                        | -317.422  | 12.992    | -1.122    | -317.423  | 12.993    | -1.118    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2495.1                                                                        | -308.411  | 9.976     | -1.426    | -308.412  | 9.976     | -1.421    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2495.2                                                                        | -308.492  | 8.208     | -1.430    | -308.493  | 8.209     | -1.425    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2495.3                                                                        | -308.536  | 7.957     | -1.114    | -308.537  | 7.957     | -1.109    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2495.4                                                                        | -308.538  | 7.802     | -0.629    | -308.539  | 7.802     | -0.624    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2495.5                                                                        | -308.536  | 7.792     | 0.361     | -308.537  | 7.793     | 0.366     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2495.6                                                                        | -308.538  | 8.136     | 1.264     | -308.539  | 8.136     | 1.269     | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2495.7                                                                        | -308.481  | 10.166    | 2.494     | -308.481  | 10.166    | 2.499     | -0.001    | 0.001     | 0.005     | 0.005      | + |

| Vector Group<br>PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |            |   |
|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|---|
| Name                                                                             | Begin     |           |           | End       |           |           | Delta     |           |           |            |   |
|                                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) | Mag<br>(m) |   |
| D2-2495.8                                                                        | -308.422  | 12.568    | 1.297     | -308.423  | 12.569    | 1.302     | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2495.9                                                                        | -308.415  | 12.784    | -1.110    | -308.416  | 12.784    | -1.105    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2504.1                                                                        | -299.415  | 9.754     | -1.432    | -299.416  | 9.755     | -1.427    | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2504.2                                                                        | -299.508  | 7.986     | -1.429    | -299.509  | 7.987     | -1.424    | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2504.3                                                                        | -299.533  | 7.743     | -1.126    | -299.533  | 7.744     | -1.121    | -0.001    | 0.000     | 0.005     | 0.005      | + |
| D2-2504.4                                                                        | -299.533  | 7.590     | -0.626    | -299.534  | 7.591     | -0.621    | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2504.5                                                                        | -299.538  | 7.580     | 0.359     | -299.539  | 7.580     | 0.364     | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2504.6                                                                        | -299.532  | 7.911     | 1.234     | -299.533  | 7.911     | 1.239     | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2504.7                                                                        | -299.479  | 9.944     | 2.494     | -299.479  | 9.944     | 2.499     | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2504.8                                                                        | -299.426  | 12.361    | 1.282     | -299.427  | 12.362    | 1.287     | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2504.9                                                                        | -299.424  | 12.564    | -1.113    | -299.425  | 12.565    | -1.108    | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2513.1                                                                        | -290.418  | 9.559     | -1.433    | -290.419  | 9.559     | -1.428    | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2513.2                                                                        | -290.503  | 7.783     | -1.430    | -290.504  | 7.784     | -1.425    | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2513.3                                                                        | -290.539  | 7.531     | -1.113    | -290.540  | 7.531     | -1.107    | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2513.4                                                                        | -290.538  | 7.382     | -0.625    | -290.539  | 7.383     | -0.620    | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2513.5                                                                        | -290.542  | 7.377     | 0.367     | -290.543  | 7.378     | 0.372     | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2513.6                                                                        | -290.533  | 7.707     | 1.229     | -290.533  | 7.708     | 1.234     | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2513.7                                                                        | -290.486  | 9.753     | 2.492     | -290.487  | 9.754     | 2.497     | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2513.8                                                                        | -290.432  | 12.149    | 1.293     | -290.433  | 12.150    | 1.298     | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2513.9                                                                        | -290.428  | 12.371    | -1.093    | -290.429  | 12.371    | -1.089    | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2522.1                                                                        | -281.486  | 9.344     | -1.429    | -281.486  | 9.345     | -1.424    | -0.001    | 0.001     | 0.005     | 0.005      | + |
| D2-2522.2                                                                        | -281.527  | 7.568     | -1.428    | -281.527  | 7.568     | -1.423    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2522.3                                                                        | -281.540  | 7.325     | -1.125    | -281.540  | 7.325     | -1.120    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2522.4                                                                        | -281.542  | 7.174     | -0.624    | -281.542  | 7.175     | -0.619    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2522.5                                                                        | -281.544  | 7.164     | 0.364     | -281.545  | 7.165     | 0.369     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2522.6                                                                        | -281.536  | 7.493     | 1.236     | -281.537  | 7.493     | 1.241     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2522.7                                                                        | -281.490  | 9.542     | 2.493     | -281.490  | 9.543     | 2.498     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2522.8                                                                        | -281.436  | 11.946    | 1.294     | -281.436  | 11.947    | 1.299     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2522.9                                                                        | -281.434  | 12.159    | -1.090    | -281.434  | 12.160    | -1.085    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2531.1                                                                        | -272.508  | 9.151     | -1.424    | -272.508  | 9.152     | -1.419    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2531.2                                                                        | -272.532  | 7.365     | -1.433    | -272.532  | 7.365     | -1.427    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2531.3                                                                        | -272.541  | 7.126     | -1.144    | -272.542  | 7.127     | -1.139    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2531.4                                                                        | -272.546  | 6.968     | -0.619    | -272.546  | 6.969     | -0.614    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2531.5                                                                        | -272.546  | 6.962     | 0.355     | -272.546  | 6.963     | 0.360     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2531.6                                                                        | -272.534  | 7.394     | 1.379     | -272.535  | 7.395     | 1.384     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2531.7                                                                        | -272.494  | 9.338     | 2.485     | -272.495  | 9.339     | 2.491     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2531.8                                                                        | -272.442  | 11.733    | 1.293     | -272.442  | 11.734    | 1.298     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2531.9                                                                        | -272.438  | 11.959    | -1.098    | -272.439  | 11.960    | -1.093    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2540.1                                                                        | -263.469  | 8.943     | -1.425    | -263.470  | 8.944     | -1.420    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2540.2                                                                        | -263.528  | 7.180     | -1.420    | -263.529  | 7.181     | -1.415    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2540.3                                                                        | -263.544  | 6.938     | -1.140    | -263.544  | 6.939     | -1.135    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2540.4                                                                        | -263.546  | 6.778     | -0.623    | -263.546  | 6.779     | -0.618    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2540.5                                                                        | -263.546  | 6.766     | 0.360     | -263.547  | 6.767     | 0.365     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2540.6                                                                        | -263.543  | 7.084     | 1.221     | -263.543  | 7.085     | 1.226     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2540.7                                                                        | -263.492  | 9.143     | 2.507     | -263.493  | 9.144     | 2.512     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2540.8                                                                        | -263.444  | 11.545    | 1.299     | -263.444  | 11.546    | 1.304     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2540.9                                                                        | -263.437  | 11.744    | -1.118    | -263.437  | 11.745    | -1.113    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2549.1                                                                        | -254.513  | 8.767     | -1.426    | -254.513  | 8.768     | -1.421    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2549.2                                                                        | -254.531  | 6.982     | -1.431    | -254.532  | 6.983     | -1.425    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2549.4                                                                        | -254.546  | 6.590     | -0.629    | -254.547  | 6.591     | -0.623    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2549.5                                                                        | -254.548  | 6.575     | 0.364     | -254.548  | 6.576     | 0.369     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2549.6                                                                        | -254.545  | 6.893     | 1.225     | -254.546  | 6.894     | 1.230     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2549.7                                                                        | -254.497  | 8.947     | 2.502     | -254.498  | 8.948     | 2.507     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2549.8                                                                        | -254.445  | 11.350    | 1.298     | -254.445  | 11.352    | 1.303     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2549.9                                                                        | -254.439  | 11.569    | -1.092    | -254.440  | 11.570    | -1.087    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2558.1                                                                        | -245.524  | 8.553     | -1.427    | -245.525  | 8.554     | -1.422    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2558.2                                                                        | -245.553  | 6.777     | -1.428    | -245.554  | 6.778     | -1.423    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2558.3                                                                        | -245.559  | 6.538     | -1.129    | -245.560  | 6.539     | -1.124    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2558.4                                                                        | -245.560  | 6.382     | -0.626    | -245.560  | 6.383     | -0.621    | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2558.5                                                                        | -245.561  | 6.373     | 0.366     | -245.561  | 6.374     | 0.371     | -0.000    | 0.001     | 0.005     | 0.005      | + |
| D2-2558.6                                                                        | -245.553  | 6.697     | 1.223     | -245.554  | 6.698     | 1.229     | -0.000    | 0.001     | 0.005     | 0.005      | + |



| Vector Group<br>PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |       |   |
|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|---|
| Name                                                                             | Begin     |           |           | End       |           |           | Delta     |           |           | Mag   |   |
|                                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) |       |   |
| D2-2558.7                                                                        | -245.496  | 8.739     | 2.492     | -245.497  | 8.741     | 2.497     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2558.8                                                                        | -245.440  | 11.142    | 1.292     | -245.440  | 11.143    | 1.297     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2558.9                                                                        | -245.439  | 11.371    | -1.087    | -245.439  | 11.372    | -1.082    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2567.1                                                                        | -236.480  | 8.334     | -1.429    | -236.480  | 8.335     | -1.424    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2567.2                                                                        | -236.565  | 6.574     | -1.428    | -236.566  | 6.575     | -1.422    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2567.3                                                                        | -236.566  | 6.328     | -1.150    | -236.566  | 6.329     | -1.144    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2567.4                                                                        | -236.575  | 6.168     | -0.630    | -236.575  | 6.169     | -0.625    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2567.5                                                                        | -236.568  | 6.157     | 0.358     | -236.568  | 6.158     | 0.364     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2567.6                                                                        | -236.558  | 6.475     | 1.212     | -236.558  | 6.476     | 1.218     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2567.7                                                                        | -236.492  | 8.521     | 2.493     | -236.492  | 8.523     | 2.498     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2567.8                                                                        | -236.433  | 10.931    | 1.294     | -236.434  | 10.932    | 1.299     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2567.9                                                                        | -236.433  | 11.159    | -1.087    | -236.434  | 11.160    | -1.082    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2576.1                                                                        | -227.480  | 8.117     | -1.430    | -227.480  | 8.118     | -1.425    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2576.2                                                                        | -227.565  | 6.330     | -1.432    | -227.565  | 6.331     | -1.427    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2576.3                                                                        | -227.566  | 6.086     | -1.124    | -227.566  | 6.087     | -1.119    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2576.4                                                                        | -227.571  | 5.931     | -0.630    | -227.571  | 5.932     | -0.625    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2576.5                                                                        | -227.565  | 5.919     | 0.363     | -227.565  | 5.920     | 0.368     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2576.6                                                                        | -227.552  | 6.236     | 1.214     | -227.553  | 6.237     | 1.219     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2576.7                                                                        | -227.500  | 8.299     | 2.496     | -227.500  | 8.301     | 2.501     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2576.8                                                                        | -227.447  | 10.694    | 1.300     | -227.448  | 10.695    | 1.305     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2576.9                                                                        | -227.445  | 10.918    | -1.086    | -227.445  | 10.919    | -1.081    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2585.1                                                                        | -218.506  | 7.966     | -1.539    | -218.506  | 7.967     | -1.534    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2585.2                                                                        | -218.553  | 6.184     | -1.533    | -218.553  | 6.185     | -1.527    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2585.3                                                                        | -218.551  | 5.927     | -1.228    | -218.551  | 5.928     | -1.223    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2585.4                                                                        | -218.557  | 5.752     | -0.736    | -218.557  | 5.753     | -0.731    | -0.001    | 0.001     | 0.005     | 0.005 | + |
| D2-2585.5                                                                        | -218.557  | 5.700     | 0.249     | -218.557  | 5.701     | 0.255     | -0.001    | 0.001     | 0.005     | 0.005 | + |
| D2-2585.6                                                                        | -218.552  | 6.046     | 1.234     | -218.552  | 6.047     | 1.239     | -0.001    | 0.001     | 0.005     | 0.005 | + |
| D2-2585.7                                                                        | -218.502  | 8.100     | 2.502     | -218.503  | 8.101     | 2.508     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2585.8                                                                        | -218.457  | 10.567    | 1.179     | -218.457  | 10.568    | 1.184     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2585.9                                                                        | -218.459  | 10.640    | -1.245    | -218.460  | 10.641    | -1.240    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2594.1                                                                        | -209.532  | 7.904     | -1.718    | -209.532  | 7.905     | -1.713    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2594.2                                                                        | -209.560  | 6.136     | -1.714    | -209.560  | 6.137     | -1.709    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2594.3                                                                        | -209.565  | 5.812     | -1.372    | -209.565  | 5.813     | -1.367    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2594.4                                                                        | -209.564  | 5.607     | -0.888    | -209.564  | 5.608     | -0.883    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2594.5                                                                        | -209.565  | 5.482     | 0.028     | -209.565  | 5.483     | 0.033     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2594.6                                                                        | -209.558  | 5.740     | 1.044     | -209.558  | 5.741     | 1.049     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2594.7                                                                        | -209.501  | 7.890     | 2.508     | -209.501  | 7.891     | 2.514     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2594.8                                                                        | -209.449  | 10.436    | 1.038     | -209.450  | 10.437    | 1.043     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2594.9                                                                        | -209.458  | 10.346    | -1.401    | -209.459  | 10.347    | -1.396    | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2603.1                                                                        | -200.529  | 7.847     | -1.890    | -200.530  | 7.847     | -1.885    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2603.2                                                                        | -200.558  | 6.101     | -1.894    | -200.558  | 6.101     | -1.889    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2603.3                                                                        | -200.568  | 5.695     | -1.518    | -200.568  | 5.695     | -1.513    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2603.4                                                                        | -200.569  | 5.467     | -1.084    | -200.570  | 5.468     | -1.079    | -0.001    | 0.001     | 0.005     | 0.005 | + |
| D2-2603.5                                                                        | -200.572  | 5.272     | -0.095    | -200.573  | 5.272     | -0.090    | -0.001    | 0.001     | 0.005     | 0.005 | + |
| D2-2603.6                                                                        | -200.565  | 5.461     | 0.879     | -200.566  | 5.462     | 0.884     | -0.001    | 0.001     | 0.005     | 0.005 | + |
| D2-2603.7                                                                        | -200.506  | 7.690     | 2.516     | -200.506  | 7.691     | 2.521     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2603.8                                                                        | -200.455  | 10.294    | 0.902     | -200.455  | 10.295    | 0.907     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2603.9                                                                        | -200.462  | 10.063    | -1.519    | -200.463  | 10.064    | -1.514    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2612.1                                                                        | -191.560  | 6.039     | -2.069    | -191.560  | 6.040     | -2.064    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2612.11                                                                       | -191.515  | 7.797     | -2.070    | -191.515  | 7.797     | -2.065    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2612.2                                                                        | -191.559  | 5.903     | -2.029    | -191.560  | 5.903     | -2.024    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2612.3                                                                        | -191.566  | 5.578     | -1.666    | -191.566  | 5.578     | -1.660    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2612.4                                                                        | -191.569  | 5.318     | -1.231    | -191.569  | 5.318     | -1.226    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2612.5                                                                        | -191.567  | 5.070     | -0.271    | -191.568  | 5.070     | -0.266    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2612.6                                                                        | -191.560  | 5.199     | 0.714     | -191.560  | 5.199     | 0.720     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2612.7                                                                        | -191.504  | 7.475     | 2.494     | -191.504  | 7.475     | 2.499     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2612.8                                                                        | -191.454  | 10.151    | 0.712     | -191.454  | 10.152    | 0.717     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2621.1                                                                        | -182.563  | 5.957     | -2.253    | -182.563  | 5.957     | -2.248    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2621.11                                                                       | -182.507  | 7.712     | -2.255    | -182.508  | 7.712     | -2.250    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2621.2                                                                        | -182.569  | 5.819     | -2.227    | -182.570  | 5.819     | -2.222    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2621.3                                                                        | -182.577  | 5.420     | -1.828    | -182.577  | 5.420     | -1.823    | -0.000    | 0.000     | 0.005     | 0.005 | + |

| Vector Group<br>PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |       |   |
|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|---|
| Name                                                                             | Begin     |           |           | End       |           |           | Delta     |           |           | Mag   |   |
|                                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) |       |   |
| D2-2621.4                                                                        | -182.582  | 5.142     | -1.401    | -182.582  | 5.142     | -1.396    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2621.5                                                                        | -182.580  | 4.856     | -0.451    | -182.580  | 4.856     | -0.446    | -0.001    | 0.000     | 0.005     | 0.005 | + |
| D2-2621.6                                                                        | -182.572  | 4.950     | 0.538     | -182.573  | 4.951     | 0.543     | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2621.7                                                                        | -182.504  | 7.265     | 2.407     | -182.504  | 7.265     | 2.412     | -0.000    | 0.001     | 0.005     | 0.005 | + |
| D2-2621.8                                                                        | -182.441  | 9.968     | 0.522     | -182.442  | 9.968     | 0.527     | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2630.10                                                                       | -170.719  | 8.364     | -1.562    | -170.719  | 8.363     | -1.557    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2630.1                                                                        | -173.534  | 5.958     | -2.427    | -173.535  | 5.958     | -2.422    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2630.11                                                                       | -173.457  | 7.652     | -2.422    | -173.457  | 7.652     | -2.417    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2630.2                                                                        | -173.569  | 5.693     | -2.333    | -173.569  | 5.693     | -2.328    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2630.3                                                                        | -173.576  | 5.303     | -1.981    | -173.577  | 5.303     | -1.976    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2630.4                                                                        | -173.581  | 5.001     | -1.570    | -173.582  | 5.001     | -1.565    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2630.5                                                                        | -173.580  | 4.668     | -0.638    | -173.580  | 4.668     | -0.633    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2630.6                                                                        | -173.572  | 4.706     | 0.361     | -173.573  | 4.706     | 0.366     | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2630.7                                                                        | -173.504  | 7.064     | 2.367     | -173.504  | 7.064     | 2.372     | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2630.8                                                                        | -173.451  | 9.783     | 0.391     | -173.451  | 9.783     | 0.396     | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2639.1                                                                        | -164.558  | 5.935     | -2.604    | -164.558  | 5.935     | -2.599    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2639.10                                                                       | -161.325  | 7.882     | -1.561    | -161.325  | 7.882     | -1.557    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2639.11                                                                       | -164.491  | 7.621     | -2.602    | -164.491  | 7.621     | -2.598    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2639.2                                                                        | -164.563  | 5.640     | -2.509    | -164.563  | 5.640     | -2.504    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2639.3                                                                        | -164.572  | 5.133     | -2.101    | -164.572  | 5.133     | -2.096    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2639.4                                                                        | -164.579  | 4.816     | -1.696    | -164.579  | 4.816     | -1.691    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2639.5                                                                        | -164.576  | 4.463     | -0.781    | -164.576  | 4.463     | -0.776    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2639.6                                                                        | -164.574  | 4.472     | 0.225     | -164.574  | 4.472     | 0.230     | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2639.7                                                                        | -164.519  | 6.823     | 2.301     | -164.519  | 6.824     | 2.306     | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2639.8                                                                        | -164.455  | 9.603     | 0.187     | -164.455  | 9.603     | 0.191     | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2639.9                                                                        | -164.482  | 8.906     | -2.116    | -164.483  | 8.906     | -2.111    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2648.1                                                                        | -155.551  | 5.761     | -2.631    | -155.552  | 5.761     | -2.626    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2648.11                                                                       | -155.451  | 7.435     | -2.627    | -155.452  | 7.435     | -2.622    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2648.2                                                                        | -155.556  | 5.477     | -2.545    | -155.557  | 5.477     | -2.540    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2648.3                                                                        | -155.569  | 4.949     | -2.136    | -155.569  | 4.948     | -2.132    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2648.4                                                                        | -155.577  | 4.630     | -1.740    | -155.577  | 4.630     | -1.736    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2648.5                                                                        | -155.585  | 4.251     | -0.814    | -155.585  | 4.251     | -0.809    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2648.6                                                                        | -155.584  | 4.248     | 0.180     | -155.585  | 4.249     | 0.185     | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2648.7                                                                        | -155.529  | 6.622     | 2.288     | -155.530  | 6.623     | 2.292     | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2648.8                                                                        | -155.456  | 9.399     | 0.169     | -155.457  | 9.399     | 0.173     | -0.000    | 0.000     | 0.004     | 0.004 | + |
| D2-2648.9                                                                        | -155.473  | 8.685     | -2.139    | -155.474  | 8.685     | -2.135    | -0.000    | 0.000     | 0.004     | 0.004 | + |
| D2-2657.1                                                                        | -146.565  | 5.494     | -2.629    | -146.565  | 5.494     | -2.625    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2657.10                                                                       | -148.275  | 7.576     | -1.567    | -148.275  | 7.576     | -1.563    | -0.000    | -0.000    | 0.004     | 0.004 | + |
| D2-2657.11                                                                       | -146.494  | 7.172     | -2.632    | -146.495  | 7.172     | -2.628    | -0.000    | -0.000    | 0.004     | 0.004 | + |
| D2-2657.2                                                                        | -145.065  | 5.191     | -2.544    | -145.065  | 5.190     | -2.539    | -0.000    | -0.000    | 0.004     | 0.005 | + |
| D2-2657.3                                                                        | -146.580  | 4.578     | -1.953    | -146.580  | 4.578     | -1.948    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2657.4                                                                        | -146.581  | 4.404     | -1.702    | -146.582  | 4.404     | -1.698    | -0.000    | -0.000    | 0.005     | 0.005 | + |
| D2-2657.5                                                                        | -146.587  | 4.050     | -0.780    | -146.587  | 4.050     | -0.776    | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2657.6                                                                        | -146.583  | 4.071     | 0.219     | -146.583  | 4.071     | 0.224     | -0.000    | 0.000     | 0.005     | 0.005 | + |
| D2-2657.7                                                                        | -146.524  | 6.415     | 2.262     | -146.524  | 6.416     | 2.267     | -0.000    | 0.001     | 0.004     | 0.004 | + |
| D2-2657.8                                                                        | -146.467  | 9.178     | 0.209     | -146.467  | 9.178     | 0.213     | -0.000    | 0.000     | 0.004     | 0.004 | + |
| D2-2666.10                                                                       | -139.752  | 7.184     | -1.562    | -139.752  | 7.184     | -1.558    | -0.000    | 0.000     | 0.004     | 0.004 | + |
| D2-2666.1                                                                        | -137.575  | 5.237     | -2.634    | -137.575  | 5.237     | -2.630    | -0.000    | -0.000    | 0.004     | 0.004 | + |
| D2-2666.11                                                                       | -137.499  | 6.913     | -2.634    | -137.500  | 6.913     | -2.630    | -0.000    | -0.000    | 0.004     | 0.004 | + |
| D2-2666.2                                                                        | -137.580  | 4.954     | -2.532    | -137.580  | 4.953     | -2.528    | -0.000    | -0.000    | 0.004     | 0.004 | + |
| D2-2666.3                                                                        | -137.589  | 4.464     | -2.111    | -137.590  | 4.464     | -2.106    | -0.000    | -0.000    | 0.004     | 0.004 | + |
| D2-2666.4                                                                        | -137.597  | 4.162     | -1.701    | -137.597  | 4.162     | -1.697    | -0.000    | -0.000    | 0.004     | 0.004 | + |
| D2-2666.5                                                                        | -137.593  | 3.827     | -0.771    | -137.593  | 3.827     | -0.766    | -0.000    | 0.000     | 0.004     | 0.005 | + |
| D2-2666.6                                                                        | -137.591  | 3.863     | 0.226     | -137.591  | 3.863     | 0.230     | -0.000    | 0.000     | 0.004     | 0.005 | + |
| D2-2666.7                                                                        | -137.519  | 6.208     | 2.237     | -137.520  | 6.208     | 2.241     | -0.000    | 0.001     | 0.004     | 0.004 | + |
| D2-2666.8                                                                        | -137.459  | 8.960     | 0.164     | -137.459  | 8.961     | 0.168     | -0.000    | 0.000     | 0.004     | 0.004 | + |
| D2-2666.9                                                                        | -137.490  | 8.303     | -2.153    | -137.491  | 8.303     | -2.149    | -0.000    | 0.000     | 0.004     | 0.004 | + |
| D2-2675.1                                                                        | -128.554  | 4.973     | -2.630    | -128.554  | 4.973     | -2.626    | -0.000    | 0.000     | 0.004     | 0.004 | + |
| D2-2675.10                                                                       | -126.009  | 6.614     | -1.560    | -126.009  | 6.614     | -1.556    | -0.000    | 0.000     | 0.004     | 0.004 | + |
| D2-2675.11                                                                       | -128.514  | 6.665     | -2.633    | -128.514  | 6.665     | -2.629    | -0.000    | 0.000     | 0.004     | 0.004 | + |
| D2-2675.3                                                                        | -128.586  | 4.160     | -2.021    | -128.586  | 4.160     | -2.017    | -0.000    | 0.000     | 0.004     | 0.004 | + |

| Vector Group<br>PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |            |   |
|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|---|
| Name                                                                             | Begin     |           |           | End       |           |           | Delta     |           |           |            |   |
|                                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) | Mag<br>(m) |   |
| D2-2675.4                                                                        | -128.592  | 3.925     | -1.675    | -128.592  | 3.925     | -1.670    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2675.5                                                                        | -128.593  | 3.609     | -0.737    | -128.593  | 3.609     | -0.732    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2675.6                                                                        | -128.587  | 3.692     | 0.346     | -128.587  | 3.692     | 0.350     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2675.7                                                                        | -128.523  | 6.008     | 2.215     | -128.523  | 6.009     | 2.219     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2675.8                                                                        | -128.473  | 8.707     | 0.350     | -128.473  | 8.707     | 0.354     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2684.10                                                                       | -120.250  | 6.490     | -1.561    | -120.250  | 6.490     | -1.557    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2684.1                                                                        | -119.571  | 4.693     | -2.628    | -119.571  | 4.693     | -2.624    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2684.11                                                                       | -119.518  | 6.360     | -2.635    | -119.519  | 6.360     | -2.631    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2684.3                                                                        | -119.593  | 3.946     | -2.049    | -119.593  | 3.946     | -2.044    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2684.4                                                                        | -119.597  | 3.680     | -1.639    | -119.597  | 3.681     | -1.635    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2684.5                                                                        | -119.595  | 3.397     | -0.680    | -119.596  | 3.397     | -0.676    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2684.6                                                                        | -119.588  | 3.494     | 0.321     | -119.589  | 3.495     | 0.326     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2684.7                                                                        | -119.522  | 5.796     | 2.183     | -119.522  | 5.797     | 2.187     | -0.000    | 0.001     | 0.004     | 0.004      | + |
| D2-2684.8                                                                        | -119.471  | 8.494     | 0.316     | -119.472  | 8.495     | 0.319     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2693.10                                                                       | -110.429  | 6.320     | -1.568    | -110.430  | 6.320     | -1.564    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2693.1                                                                        | -110.550  | 4.420     | -2.632    | -110.551  | 4.420     | -2.628    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2693.11                                                                       | -110.495  | 5.916     | -2.633    | -110.495  | 5.916     | -2.629    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2693.2                                                                        | -109.090  | 4.117     | -2.516    | -109.090  | 4.117     | -2.512    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2693.3                                                                        | -110.597  | 3.702     | -2.050    | -110.597  | 3.702     | -2.046    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2693.4                                                                        | -110.603  | 3.435     | -1.614    | -110.603  | 3.435     | -1.610    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2693.5                                                                        | -110.605  | 3.180     | -0.655    | -110.605  | 3.180     | -0.650    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2693.6                                                                        | -110.595  | 3.298     | 0.330     | -110.596  | 3.298     | 0.334     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2693.7                                                                        | -110.527  | 5.581     | 2.135     | -110.528  | 5.582     | 2.139     | -0.000    | 0.001     | 0.004     | 0.004      | + |
| D2-2693.8                                                                        | -110.473  | 8.284     | 0.258     | -110.473  | 8.284     | 0.262     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2702.1                                                                        | -101.570  | 4.180     | -2.628    | -101.571  | 4.180     | -2.624    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2702.11                                                                       | -101.481  | 5.887     | -2.630    | -101.481  | 5.887     | -2.625    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2702.2                                                                        | -101.581  | 3.919     | -2.502    | -101.581  | 3.920     | -2.498    | -0.000    | 0.001     | 0.004     | 0.004      | + |
| D2-2702.3                                                                        | -101.592  | 3.472     | -2.025    | -101.592  | 3.472     | -2.020    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2702.4                                                                        | -101.599  | 3.223     | -1.601    | -101.599  | 3.223     | -1.596    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2702.5                                                                        | -101.594  | 2.977     | -0.635    | -101.594  | 2.977     | -0.630    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2702.6                                                                        | -101.593  | 3.116     | 0.357     | -101.593  | 3.117     | 0.362     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2702.7                                                                        | -101.538  | 5.392     | 2.118     | -101.538  | 5.393     | 2.122     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2702.8                                                                        | -101.478  | 8.098     | 0.200     | -101.478  | 8.098     | 0.204     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2711.1                                                                        | -92.558   | 3.969     | -2.617    | -92.558   | 3.969     | -2.612    | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2711.11                                                                       | -92.469   | 5.639     | -2.624    | -92.469   | 5.639     | -2.620    | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2711.2                                                                        | -92.569   | 3.639     | -2.444    | -92.569   | 3.639     | -2.440    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2711.3                                                                        | -92.581   | 3.254     | -2.020    | -92.581   | 3.254     | -2.015    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2711.4                                                                        | -92.591   | 2.995     | -1.575    | -92.591   | 2.995     | -1.571    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2711.5                                                                        | -92.602   | 2.763     | -0.621    | -92.602   | 2.763     | -0.617    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2711.6                                                                        | -92.609   | 2.909     | 0.366     | -92.609   | 2.909     | 0.370     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2711.7                                                                        | -92.568   | 5.170     | 2.111     | -92.568   | 5.170     | 2.115     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2711.8                                                                        | -92.483   | 7.885     | 0.217     | -92.483   | 7.885     | 0.221     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2720.1                                                                        | -83.561   | 3.791     | -2.572    | -83.561   | 3.791     | -2.568    | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2720.11                                                                       | -83.527   | 5.465     | -2.571    | -83.527   | 5.465     | -2.567    | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2720.2                                                                        | -82.062   | 3.473     | -2.437    | -82.062   | 3.473     | -2.433    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2720.3                                                                        | -83.581   | 3.070     | -1.991    | -83.581   | 3.070     | -1.987    | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2720.4                                                                        | -83.589   | 2.810     | -1.560    | -83.589   | 2.810     | -1.555    | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2720.5                                                                        | -83.598   | 2.559     | -0.604    | -83.598   | 2.559     | -0.600    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2720.6                                                                        | -83.604   | 2.689     | 0.391     | -83.604   | 2.689     | 0.395     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2720.7                                                                        | -83.570   | 4.981     | 2.178     | -83.570   | 4.981     | 2.182     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2720.8                                                                        | -83.496   | 7.682     | 0.262     | -83.497   | 7.682     | 0.266     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2729.1                                                                        | -74.536   | 3.642     | -2.520    | -74.537   | 3.642     | -2.516    | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2729.11                                                                       | -74.503   | 5.315     | -2.525    | -74.503   | 5.315     | -2.521    | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2729.3                                                                        | -74.577   | 2.901     | -1.949    | -74.577   | 2.901     | -1.945    | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2729.4                                                                        | -74.583   | 2.633     | -1.522    | -74.583   | 2.633     | -1.518    | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2729.5                                                                        | -74.598   | 2.368     | -0.541    | -74.599   | 2.368     | -0.537    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2729.6                                                                        | -74.602   | 2.480     | 0.425     | -74.602   | 2.481     | 0.429     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2729.7                                                                        | -74.572   | 4.775     | 2.254     | -74.573   | 4.775     | 2.259     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2729.8                                                                        | -74.509   | 7.471     | 0.381     | -74.509   | 7.471     | 0.385     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2729.9                                                                        | -74.505   | 7.026     | -1.949    | -74.505   | 7.026     | -1.945    | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2738.1                                                                        | -65.552   | 3.586     | -2.523    | -65.552   | 3.586     | -2.520    | -0.000    | -0.000    | 0.004     | 0.004      | + |



| Vector Group                                                     |           |           |           |           |           |           |           |           |           |            |   |
|------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------------|---|
| PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |            |   |
| Name                                                             | Begin     |           |           | End       |           |           | Delta     |           |           |            |   |
|                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) | Mag<br>(m) |   |
| D2-2738.11                                                       | -65.492   | 5.274     | -2.529    | -65.493   | 5.273     | -2.525    | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2738.2                                                        | -64.064   | 3.139     | -2.315    | -64.064   | 3.139     | -2.312    | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2738.3                                                        | -65.572   | 2.804     | -1.987    | -65.572   | 2.804     | -1.983    | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2738.4                                                        | -65.585   | 2.512     | -1.575    | -65.586   | 2.511     | -1.572    | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2738.5                                                        | -65.606   | 2.191     | -0.636    | -65.606   | 2.191     | -0.632    | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2738.6                                                        | -65.616   | 2.247     | 0.379     | -65.616   | 2.247     | 0.383     | -0.000    | -0.000    | 0.004     | 0.004      | + |
| D2-2738.7                                                        | -65.591   | 4.572     | 2.327     | -65.591   | 4.572     | 2.331     | -0.000    | 0.000     | 0.004     | 0.004      | + |
| D2-2738.8                                                        | -65.507   | 7.306     | 0.350     | -65.507   | 7.306     | 0.353     | -0.000    | 0.000     | 0.003     | 0.003      | + |
| D2-2738.9                                                        | -65.485   | 6.670     | -2.057    | -65.485   | 6.670     | -2.054    | -0.000    | -0.000    | 0.003     | 0.003      | + |
| D2-2747.1                                                        | -56.564   | 3.520     | -2.523    | -56.565   | 3.520     | -2.519    | -0.000    | -0.000    | 0.003     | 0.003      | + |
| D2-2747.11                                                       | -56.553   | 5.169     | -2.519    | -56.553   | 5.168     | -2.516    | -0.000    | -0.000    | 0.003     | 0.003      | + |
| D2-2747.2                                                        | -55.065   | 3.079     | -2.353    | -55.065   | 3.078     | -2.350    | -0.000    | -0.000    | 0.003     | 0.003      | + |
| D2-2747.3                                                        | -56.584   | 2.714     | -2.044    | -56.585   | 2.713     | -2.041    | -0.000    | -0.000    | 0.003     | 0.003      | + |
| D2-2747.4                                                        | -56.597   | 2.389     | -1.656    | -56.597   | 2.389     | -1.653    | -0.000    | -0.000    | 0.003     | 0.003      | + |
| D2-2747.5                                                        | -56.607   | 2.000     | -0.754    | -56.607   | 2.000     | -0.751    | -0.000    | -0.000    | 0.003     | 0.003      | + |
| D2-2747.6                                                        | -56.616   | 1.972     | 0.247     | -56.616   | 1.972     | 0.250     | -0.000    | -0.000    | 0.003     | 0.003      | + |
| D2-2747.7                                                        | -56.579   | 4.342     | 2.409     | -56.579   | 4.342     | 2.411     | -0.000    | -0.000    | 0.003     | 0.003      | + |
| D2-2747.8                                                        | -56.494   | 7.127     | 0.258     | -56.494   | 7.127     | 0.260     | -0.000    | 0.000     | 0.003     | 0.003      | + |
| D2-2747.9                                                        | -56.492   | 6.390     | -2.037    | -56.492   | 6.389     | -2.034    | -0.000    | -0.000    | 0.003     | 0.003      | + |
| D2-2754.1                                                        | -49.083   | 3.442     | -2.534    | -49.083   | 3.442     | -2.531    | -0.000    | -0.001    | 0.003     | 0.003      | + |
| D2-2754.11                                                       | -49.012   | 5.074     | -2.536    | -49.012   | 5.073     | -2.534    | -0.000    | -0.001    | 0.003     | 0.003      | + |
| D2-2754.3                                                        | -49.090   | 2.612     | -2.072    | -49.090   | 2.612     | -2.069    | 0.000     | -0.000    | 0.003     | 0.003      | + |
| D2-2754.4                                                        | -49.102   | 2.271     | -1.696    | -49.102   | 2.271     | -1.693    | 0.000     | -0.000    | 0.003     | 0.003      | + |
| D2-2754.5                                                        | -49.115   | 1.848     | -0.808    | -49.115   | 1.847     | -0.805    | 0.000     | -0.000    | 0.003     | 0.003      | + |
| D2-2754.6                                                        | -49.116   | 1.785     | 0.202     | -49.116   | 1.785     | 0.205     | 0.000     | -0.000    | 0.003     | 0.003      | + |
| D2-2754.7                                                        | -49.062   | 4.186     | 2.455     | -49.062   | 4.186     | 2.458     | 0.000     | -0.000    | 0.003     | 0.003      | + |
| D2-2754.8                                                        | -48.993   | 6.947     | 0.315     | -48.993   | 6.946     | 0.317     | 0.000     | -0.000    | 0.002     | 0.003      | + |
| D2-2754.9                                                        | -49.010   | 6.136     | -2.074    | -49.010   | 6.135     | -2.072    | 0.000     | -0.000    | 0.003     | 0.003      | + |
| D9-2771.3                                                        | -32.873   | 4.471     | -1.375    | -32.873   | 4.470     | -1.372    | 0.000     | -0.000    | 0.003     | 0.003      | + |
| D9-2771.4                                                        | -32.889   | 4.470     | -0.620    | -32.889   | 4.469     | -0.617    | 0.000     | -0.000    | 0.003     | 0.003      | + |
| D9-2771.5                                                        | -32.884   | 4.467     | 0.181     | -32.884   | 4.467     | 0.184     | 0.000     | -0.000    | 0.003     | 0.003      | + |
| D9-2771.6                                                        | -32.858   | 4.465     | 0.796     | -32.858   | 4.465     | 0.798     | -0.000    | -0.000    | 0.003     | 0.003      | + |
| D9-2772.2                                                        | -30.969   | 6.958     | -1.444    | -30.969   | 6.958     | -1.441    | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2772.3                                                        | -31.110   | 7.328     | -1.191    | -31.110   | 7.327     | -1.189    | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2772.4                                                        | -31.139   | 7.326     | -0.445    | -31.139   | 7.326     | -0.443    | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2772.5                                                        | -31.140   | 7.325     | 0.257     | -31.139   | 7.325     | 0.259     | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2772.6                                                        | -31.139   | 7.323     | 0.833     | -31.139   | 7.323     | 0.835     | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2775.1                                                        | -28.175   | 7.073     | -1.433    | -28.175   | 7.072     | -1.431    | -0.000    | -0.000    | 0.002     | 0.002      | + |
| D9-2778.10                                                       | -25.497   | 4.299     | -1.183    | -25.497   | 4.299     | -1.181    | 0.000     | -0.000    | 0.003     | 0.003      | + |
| D9-2778.1                                                        | -24.698   | 6.676     | -1.432    | -24.698   | 6.676     | -1.429    | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2778.2                                                        | -25.419   | 8.803     | -1.420    | -25.419   | 8.803     | -1.418    | -0.000    | -0.000    | 0.002     | 0.002      | + |
| D9-2778.3                                                        | -25.320   | 12.053    | -1.167    | -25.320   | 12.052    | -1.165    | -0.000    | -0.001    | 0.002     | 0.002      | + |
| D9-2778.4                                                        | -25.327   | 12.050    | -0.440    | -25.326   | 12.049    | -0.438    | 0.000     | -0.001    | 0.002     | 0.002      | + |
| D9-2778.5                                                        | -25.328   | 12.049    | 0.256     | -25.328   | 12.049    | 0.258     | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2778.6                                                        | -25.297   | 12.046    | 0.983     | -25.297   | 12.045    | 0.985     | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2778.8                                                        | -25.429   | 4.296     | 0.385     | -25.429   | 4.296     | 0.387     | 0.000     | -0.000    | 0.003     | 0.003      | + |
| D9-2784.10                                                       | -18.580   | 4.140     | -1.174    | -18.580   | 4.139     | -1.171    | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2784.1                                                        | -19.019   | 6.624     | -1.426    | -19.019   | 6.624     | -1.424    | -0.000    | -0.000    | 0.002     | 0.002      | + |
| D9-2784.11                                                       | -18.589   | 4.395     | -1.428    | -18.589   | 4.395     | -1.426    | 0.000     | -0.000    | 0.003     | 0.003      | + |
| D9-2784.2                                                        | -18.589   | 8.409     | -1.426    | -18.589   | 8.409     | -1.423    | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2784.3                                                        | -19.470   | 11.913    | -1.196    | -19.470   | 11.913    | -1.194    | -0.000    | -0.000    | 0.002     | 0.002      | + |
| D9-2784.4                                                        | -19.481   | 11.910    | -0.434    | -19.481   | 11.910    | -0.432    | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2784.5                                                        | -19.474   | 11.910    | 0.199     | -19.474   | 11.910    | 0.201     | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2784.6                                                        | -19.507   | 11.911    | 0.877     | -19.507   | 11.911    | 0.879     | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2784.8                                                        | -18.573   | 4.136     | 0.372     | -18.573   | 4.136     | 0.375     | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2790.3                                                        | -13.007   | 8.361     | -1.215    | -13.007   | 8.360     | -1.213    | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2790.4                                                        | -13.008   | 8.559     | -0.716    | -13.008   | 8.559     | -0.713    | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2790.5                                                        | -13.019   | 8.580     | 0.357     | -13.019   | 8.580     | 0.359     | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2790.6                                                        | -13.046   | 8.033     | 1.400     | -13.046   | 8.033     | 1.402     | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2790.8                                                        | -13.124   | 4.496     | 1.111     | -13.124   | 4.496     | 1.114     | 0.000     | -0.000    | 0.002     | 0.002      | + |
| D9-2799.3                                                        | -4.006    | 8.117     | -1.223    | -4.006    | 8.116     | -1.221    | -0.000    | -0.000    | 0.002     | 0.002      | + |

| Vector Group<br>PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |       |   |
|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|---|
| Name                                                                             | Begin     |           |           | End       |           |           | Delta     |           |           | Mag   |   |
|                                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) |       |   |
| D9-2799.4                                                                        | -4.003    | 8.329     | -0.728    | -4.003    | 8.328     | -0.726    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2799.5                                                                        | -4.007    | 8.381     | 0.353     | -4.006    | 8.380     | 0.356     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2799.6                                                                        | -4.020    | 7.872     | 1.397     | -4.020    | 7.872     | 1.399     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2799.8                                                                        | -4.127    | 4.237     | 1.090     | -4.127    | 4.237     | 1.092     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2808.3                                                                        | 4.982     | 7.888     | -1.226    | 4.982     | 7.888     | -1.224    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2808.4                                                                        | 4.986     | 8.106     | -0.741    | 4.986     | 8.106     | -0.739    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2808.5                                                                        | 4.981     | 8.173     | 0.338     | 4.981     | 8.173     | 0.340     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2808.6                                                                        | 4.971     | 7.675     | 1.390     | 4.971     | 7.675     | 1.392     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2808.8                                                                        | 4.882     | 4.009     | 1.089     | 4.882     | 4.009     | 1.091     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2817.3                                                                        | 13.975    | 7.669     | -1.228    | 13.975    | 7.669     | -1.226    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2817.4                                                                        | 13.980    | 7.891     | -0.737    | 13.980    | 7.891     | -0.734    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2817.5                                                                        | 13.982    | 7.957     | 0.343     | 13.982    | 7.957     | 0.345     | -0.000    | -0.000    | 0.002     | 0.002 | + |
| D9-2817.6                                                                        | 13.970    | 7.465     | 1.393     | 13.970    | 7.464     | 1.395     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2817.8                                                                        | 13.887    | 3.789     | 1.087     | 13.887    | 3.788     | 1.089     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2826.3                                                                        | 22.972    | 7.466     | -1.218    | 22.973    | 7.466     | -1.216    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2826.4                                                                        | 22.979    | 7.683     | -0.734    | 22.979    | 7.682     | -0.732    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2826.5                                                                        | 22.986    | 7.747     | 0.349     | 22.986    | 7.746     | 0.352     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2826.6                                                                        | 22.976    | 7.241     | 1.408     | 22.976    | 7.241     | 1.410     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2826.8                                                                        | 22.886    | 3.593     | 1.106     | 22.886    | 3.593     | 1.109     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2835.3                                                                        | 31.970    | 7.260     | -1.223    | 31.970    | 7.259     | -1.221    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2835.4                                                                        | 31.975    | 7.463     | -0.728    | 31.975    | 7.463     | -0.725    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2835.5                                                                        | 31.983    | 7.496     | 0.354     | 31.983    | 7.496     | 0.356     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2835.6                                                                        | 31.978    | 6.960     | 1.395     | 31.978    | 6.959     | 1.397     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2835.8                                                                        | 31.886    | 3.379     | 1.086     | 31.886    | 3.379     | 1.088     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2844.3                                                                        | 40.993    | 7.027     | -1.225    | 40.993    | 7.026     | -1.223    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2844.4                                                                        | 40.996    | 7.228     | -0.728    | 40.996    | 7.227     | -0.726    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2844.5                                                                        | 40.989    | 7.264     | 0.349     | 40.990    | 7.264     | 0.351     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2844.6                                                                        | 40.976    | 6.734     | 1.389     | 40.976    | 6.734     | 1.391     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2844.8                                                                        | 40.865    | 3.152     | 1.088     | 40.865    | 3.152     | 1.091     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2853.3                                                                        | 49.968    | 6.816     | -1.225    | 49.968    | 6.815     | -1.223    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2853.4                                                                        | 49.969    | 7.024     | -0.734    | 49.969    | 7.024     | -0.732    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2853.5                                                                        | 49.964    | 7.070     | 0.341     | 49.964    | 7.070     | 0.343     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2853.6                                                                        | 49.952    | 6.545     | 1.395     | 49.952    | 6.545     | 1.397     | 0.000     | -0.001    | 0.002     | 0.002 | + |
| D9-2853.8                                                                        | 49.886    | 2.942     | 1.096     | 49.886    | 2.941     | 1.098     | 0.000     | -0.001    | 0.002     | 0.002 | + |
| D9-2862.3                                                                        | 58.966    | 6.618     | -1.219    | 58.967    | 6.617     | -1.217    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2862.4                                                                        | 58.974    | 6.821     | -0.726    | 58.974    | 6.821     | -0.724    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2862.5                                                                        | 58.973    | 6.860     | 0.359     | 58.973    | 6.859     | 0.361     | 0.000     | -0.001    | 0.002     | 0.002 | + |
| D9-2862.6                                                                        | 58.970    | 6.335     | 1.397     | 58.970    | 6.335     | 1.398     | 0.000     | -0.001    | 0.002     | 0.002 | + |
| D9-2862.8                                                                        | 58.883    | 2.741     | 1.108     | 58.883    | 2.741     | 1.110     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2871.3                                                                        | 67.968    | 6.381     | -1.218    | 67.968    | 6.381     | -1.216    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2871.4                                                                        | 67.974    | 6.577     | -0.720    | 67.974    | 6.576     | -0.718    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2871.5                                                                        | 67.976    | 6.601     | 0.360     | 67.976    | 6.600     | 0.361     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2871.6                                                                        | 67.969    | 6.049     | 1.400     | 67.969    | 6.049     | 1.402     | 0.000     | -0.001    | 0.002     | 0.002 | + |
| D9-2871.8                                                                        | 67.882    | 2.500     | 1.085     | 67.882    | 2.499     | 1.087     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2880.3                                                                        | 76.978    | 6.189     | -1.220    | 76.978    | 6.189     | -1.218    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2880.4                                                                        | 76.980    | 6.393     | -0.722    | 76.980    | 6.392     | -0.721    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2880.5                                                                        | 76.972    | 6.423     | 0.349     | 76.972    | 6.423     | 0.350     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2880.6                                                                        | 76.953    | 5.886     | 1.394     | 76.953    | 5.886     | 1.396     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2880.8                                                                        | 76.859    | 2.314     | 1.100     | 76.859    | 2.313     | 1.102     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2889.3                                                                        | 85.958    | 5.946     | -1.219    | 85.958    | 5.946     | -1.217    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2889.4                                                                        | 85.962    | 6.149     | -0.725    | 85.962    | 6.149     | -0.724    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2889.5                                                                        | 85.962    | 6.195     | 0.352     | 85.962    | 6.194     | 0.354     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2889.6                                                                        | 85.960    | 5.663     | 1.404     | 85.960    | 5.663     | 1.405     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2889.8                                                                        | 85.881    | 2.072     | 1.101     | 85.881    | 2.072     | 1.103     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2898.3                                                                        | 94.970    | 5.744     | -1.207    | 94.970    | 5.744     | -1.205    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2898.4                                                                        | 94.979    | 5.942     | -0.710    | 94.980    | 5.942     | -0.708    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2898.5                                                                        | 94.984    | 5.967     | 0.365     | 94.984    | 5.967     | 0.367     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2898.6                                                                        | 94.970    | 5.424     | 1.408     | 94.971    | 5.423     | 1.410     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2898.8                                                                        | 94.864    | 1.853     | 1.094     | 94.864    | 1.852     | 1.095     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2907.3                                                                        | 103.978   | 5.501     | -1.202    | 103.979   | 5.501     | -1.201    | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2907.4                                                                        | 103.981   | 5.700     | -0.714    | 103.982   | 5.700     | -0.712    | 0.000     | -0.000    | 0.002     | 0.002 | + |

| Vector Group<br>PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |       |   |
|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|---|
| Name                                                                             | Begin     |           |           | End       |           |           | Delta     |           |           | Mag   |   |
|                                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) |       |   |
| D9-2907.5                                                                        | 103.977   | 5.738     | 0.358     | 103.977   | 5.738     | 0.360     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2907.6                                                                        | 103.953   | 5.207     | 1.407     | 103.954   | 5.206     | 1.409     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2907.8                                                                        | 103.853   | 1.608     | 1.092     | 103.854   | 1.607     | 1.093     | 0.000     | -0.000    | 0.002     | 0.002 | + |
| D9-2916.3                                                                        | 112.963   | 5.254     | -1.203    | 112.964   | 5.253     | -1.201    | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2916.4                                                                        | 112.968   | 5.468     | -0.716    | 112.968   | 5.468     | -0.715    | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2916.5                                                                        | 112.965   | 5.526     | 0.367     | 112.966   | 5.525     | 0.368     | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2916.6                                                                        | 112.949   | 5.021     | 1.420     | 112.949   | 5.020     | 1.422     | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2916.8                                                                        | 112.860   | 1.369     | 1.101     | 112.860   | 1.369     | 1.102     | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2925.3                                                                        | 121.964   | 5.057     | -1.218    | 121.964   | 5.057     | -1.217    | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2925.4                                                                        | 121.969   | 5.270     | -0.727    | 121.970   | 5.269     | -0.726    | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2925.5                                                                        | 121.969   | 5.321     | 0.350     | 121.970   | 5.320     | 0.352     | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2925.6                                                                        | 121.957   | 4.809     | 1.405     | 121.958   | 4.809     | 1.406     | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2925.8                                                                        | 121.861   | 1.167     | 1.092     | 121.862   | 1.167     | 1.093     | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2934.3                                                                        | 130.952   | 4.849     | -1.220    | 130.952   | 4.849     | -1.219    | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2934.4                                                                        | 130.958   | 5.062     | -0.725    | 130.958   | 5.062     | -0.725    | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2934.5                                                                        | 130.959   | 5.109     | 0.358     | 130.960   | 5.108     | 0.358     | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2934.6                                                                        | 130.952   | 4.585     | 1.411     | 130.953   | 4.585     | 1.412     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2934.8                                                                        | 130.878   | 0.968     | 1.093     | 130.878   | 0.968     | 1.095     | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2943.3                                                                        | 139.956   | 4.620     | -1.222    | 139.956   | 4.620     | -1.222    | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2943.4                                                                        | 139.961   | 4.837     | -0.724    | 139.961   | 4.837     | -0.724    | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2943.5                                                                        | 139.960   | 4.889     | 0.343     | 139.960   | 4.889     | 0.344     | 0.000     | -0.000    | 0.001     | 0.001 | + |
| D9-2943.6                                                                        | 139.947   | 4.372     | 1.403     | 139.948   | 4.372     | 1.404     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2943.8                                                                        | 139.870   | 0.732     | 1.087     | 139.870   | 0.731     | 1.088     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2952.3                                                                        | 148.962   | 4.382     | -1.214    | 148.963   | 4.382     | -1.214    | 0.001     | 0.000     | 0.000     | 0.001 | + |
| D9-2952.4                                                                        | 148.968   | 4.589     | -0.726    | 148.969   | 4.589     | -0.726    | 0.001     | 0.000     | 0.000     | 0.001 | + |
| D9-2952.5                                                                        | 148.969   | 4.636     | 0.362     | 148.969   | 4.636     | 0.362     | 0.000     | 0.000     | 0.000     | 0.001 | + |
| D9-2952.6                                                                        | 148.959   | 4.117     | 1.407     | 148.960   | 4.117     | 1.407     | 0.001     | 0.000     | 0.000     | 0.001 | + |
| D9-2952.8                                                                        | 148.857   | 0.498     | 1.093     | 148.858   | 0.498     | 1.093     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2961.3                                                                        | 157.966   | 4.186     | -1.215    | 157.967   | 4.186     | -1.215    | 0.001     | 0.000     | 0.001     | 0.001 | + |
| D9-2961.4                                                                        | 157.968   | 4.393     | -0.730    | 157.968   | 4.393     | -0.729    | 0.001     | 0.000     | 0.000     | 0.001 | + |
| D9-2961.5                                                                        | 157.972   | 4.441     | 0.346     | 157.973   | 4.441     | 0.346     | 0.001     | 0.000     | 0.000     | 0.001 | + |
| D9-2961.6                                                                        | 157.963   | 3.926     | 1.401     | 157.963   | 3.926     | 1.402     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2961.8                                                                        | 157.856   | 0.291     | 1.087     | 157.857   | 0.290     | 1.088     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2970.3                                                                        | 166.962   | 3.972     | -1.213    | 166.963   | 3.972     | -1.212    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2970.4                                                                        | 166.967   | 4.183     | -0.719    | 166.967   | 4.183     | -0.718    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2970.5                                                                        | 166.969   | 4.228     | 0.360     | 166.969   | 4.228     | 0.361     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2970.6                                                                        | 166.958   | 3.703     | 1.409     | 166.959   | 3.703     | 1.410     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2970.8                                                                        | 166.858   | 0.086     | 1.100     | 166.858   | 0.086     | 1.101     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2979.3                                                                        | 175.948   | 3.736     | -1.224    | 175.949   | 3.736     | -1.223    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2979.4                                                                        | 175.955   | 3.955     | -0.715    | 175.955   | 3.955     | -0.714    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2979.5                                                                        | 175.957   | 3.997     | 0.370     | 175.958   | 3.997     | 0.371     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2979.6                                                                        | 175.949   | 3.490     | 1.399     | 175.949   | 3.489     | 1.400     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2979.8                                                                        | 175.861   | -0.149    | 1.093     | 175.861   | -0.149    | 1.094     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2988.3                                                                        | 184.957   | 3.518     | -1.223    | 184.958   | 3.518     | -1.222    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2988.4                                                                        | 184.960   | 3.726     | -0.737    | 184.961   | 3.726     | -0.736    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2988.5                                                                        | 184.958   | 3.776     | 0.345     | 184.959   | 3.776     | 0.346     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2988.6                                                                        | 184.942   | 3.256     | 1.394     | 184.943   | 3.256     | 1.395     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2988.8                                                                        | 184.852   | -0.369    | 1.090     | 184.853   | -0.369    | 1.091     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2997.3                                                                        | 193.947   | 3.307     | -1.206    | 193.948   | 3.307     | -1.205    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2997.4                                                                        | 193.951   | 3.517     | -0.725    | 193.952   | 3.516     | -0.724    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2997.5                                                                        | 193.952   | 3.570     | 0.350     | 193.952   | 3.570     | 0.351     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2997.6                                                                        | 193.937   | 3.061     | 1.403     | 193.938   | 3.060     | 1.405     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-2997.8                                                                        | 193.856   | -0.585    | 1.102     | 193.857   | -0.585    | 1.103     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3006.3                                                                        | 202.938   | 3.102     | -1.204    | 202.939   | 3.101     | -1.203    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3006.4                                                                        | 202.945   | 3.307     | -0.716    | 202.946   | 3.307     | -0.715    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3006.5                                                                        | 202.954   | 3.349     | 0.363     | 202.955   | 3.349     | 0.364     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3006.6                                                                        | 202.955   | 2.819     | 1.419     | 202.956   | 2.819     | 1.420     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3006.8                                                                        | 202.876   | -0.779    | 1.114     | 202.877   | -0.779    | 1.115     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3015.3                                                                        | 211.948   | 2.881     | -1.216    | 211.949   | 2.881     | -1.215    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3015.4                                                                        | 211.952   | 3.090     | -0.723    | 211.953   | 3.090     | -0.722    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3015.5                                                                        | 211.952   | 3.135     | 0.350     | 211.952   | 3.134     | 0.351     | 0.001     | -0.000    | 0.001     | 0.001 | + |



| Vector Group<br>PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |       |   |
|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|---|
| Name                                                                             | Begin     |           |           | End       |           |           | Delta     |           |           | Mag   |   |
|                                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) |       |   |
| D9-3015.6                                                                        | 211.943   | 2.612     | 1.400     | 211.944   | 2.612     | 1.401     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3015.8                                                                        | 211.863   | -0.991    | 1.116     | 211.864   | -0.991    | 1.117     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3024.3                                                                        | 220.962   | 2.652     | -1.216    | 220.963   | 2.652     | -1.215    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3024.4                                                                        | 220.963   | 2.856     | -0.725    | 220.964   | 2.855     | -0.724    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3024.5                                                                        | 220.964   | 2.903     | 0.366     | 220.964   | 2.903     | 0.367     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3024.6                                                                        | 220.943   | 2.386     | 1.396     | 220.944   | 2.386     | 1.397     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3024.8                                                                        | 220.844   | -1.227    | 1.091     | 220.844   | -1.227    | 1.092     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3033.3                                                                        | 229.948   | 2.420     | -1.208    | 229.949   | 2.420     | -1.207    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3033.4                                                                        | 229.951   | 2.627     | -0.719    | 229.952   | 2.627     | -0.718    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3033.5                                                                        | 229.948   | 2.675     | 0.353     | 229.949   | 2.674     | 0.354     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3033.6                                                                        | 229.934   | 2.149     | 1.411     | 229.935   | 2.148     | 1.412     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3033.8                                                                        | 229.845   | -1.471    | 1.096     | 229.846   | -1.471    | 1.097     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3042.3                                                                        | 238.940   | 2.207     | -1.204    | 238.941   | 2.207     | -1.203    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3042.4                                                                        | 238.945   | 2.415     | -0.713    | 238.946   | 2.414     | -0.712    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3042.5                                                                        | 238.947   | 2.455     | 0.353     | 238.948   | 2.455     | 0.354     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3042.6                                                                        | 238.936   | 1.928     | 1.414     | 238.937   | 1.928     | 1.415     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3042.8                                                                        | 238.854   | -1.676    | 1.109     | 238.855   | -1.676    | 1.110     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3051.3                                                                        | 247.943   | 1.989     | -1.209    | 247.944   | 1.989     | -1.208    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3051.4                                                                        | 247.951   | 2.194     | -0.720    | 247.952   | 2.194     | -0.719    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3051.5                                                                        | 247.952   | 2.238     | 0.358     | 247.953   | 2.238     | 0.359     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3051.6                                                                        | 247.947   | 1.714     | 1.414     | 247.948   | 1.713     | 1.414     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3051.8                                                                        | 247.847   | -1.890    | 1.104     | 247.848   | -1.891    | 1.105     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3060.3                                                                        | 256.941   | 1.806     | -1.193    | 256.942   | 1.805     | -1.192    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3060.4                                                                        | 256.946   | 2.006     | -0.705    | 256.947   | 2.006     | -0.704    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3060.5                                                                        | 256.943   | 2.042     | 0.367     | 256.944   | 2.041     | 0.368     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3060.6                                                                        | 256.930   | 1.513     | 1.407     | 256.931   | 1.513     | 1.408     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3060.8                                                                        | 256.846   | -2.076    | 1.110     | 256.847   | -2.077    | 1.111     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3069.3                                                                        | 265.944   | 1.549     | -1.206    | 265.945   | 1.549     | -1.205    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3069.4                                                                        | 265.948   | 1.751     | -0.715    | 265.949   | 1.751     | -0.714    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3069.5                                                                        | 265.945   | 1.791     | 0.357     | 265.946   | 1.791     | 0.358     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3069.6                                                                        | 265.931   | 1.269     | 1.407     | 265.932   | 1.269     | 1.407     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3069.8                                                                        | 265.831   | -2.341    | 1.103     | 265.832   | -2.342    | 1.104     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3078.3                                                                        | 274.926   | 1.323     | -1.194    | 274.927   | 1.323     | -1.194    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3078.4                                                                        | 274.931   | 1.526     | -0.710    | 274.932   | 1.526     | -0.710    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3078.5                                                                        | 274.935   | 1.567     | 0.363     | 274.936   | 1.567     | 0.363     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3078.6                                                                        | 274.922   | 1.042     | 1.416     | 274.923   | 1.042     | 1.416     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3078.8                                                                        | 274.850   | -2.576    | 1.092     | 274.851   | -2.577    | 1.093     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3087.3                                                                        | 283.924   | 1.109     | -1.212    | 283.925   | 1.109     | -1.211    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3087.4                                                                        | 283.928   | 1.311     | -0.726    | 283.929   | 1.311     | -0.725    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3087.5                                                                        | 283.926   | 1.346     | 0.401     | 283.927   | 1.346     | 0.402     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3087.6                                                                        | 283.918   | 0.838     | 1.403     | 283.919   | 0.837     | 1.404     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3087.8                                                                        | 283.844   | -2.783    | 1.087     | 283.845   | -2.784    | 1.088     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3096.3                                                                        | 292.931   | 0.891     | -1.207    | 292.932   | 0.891     | -1.206    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3096.4                                                                        | 292.937   | 1.091     | -0.722    | 292.938   | 1.090     | -0.721    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3096.5                                                                        | 292.943   | 1.138     | 0.362     | 292.944   | 1.138     | 0.363     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3096.6                                                                        | 292.935   | 0.619     | 1.401     | 292.936   | 0.619     | 1.401     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3096.8                                                                        | 292.835   | -2.992    | 1.096     | 292.836   | -2.992    | 1.096     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3105.3                                                                        | 301.941   | 0.690     | -1.192    | 301.942   | 0.690     | -1.191    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3105.4                                                                        | 301.945   | 0.887     | -0.704    | 301.946   | 0.886     | -0.703    | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3105.5                                                                        | 301.944   | 0.920     | 0.372     | 301.945   | 0.919     | 0.372     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3105.6                                                                        | 301.925   | 0.390     | 1.412     | 301.927   | 0.390     | 1.413     | 0.001     | -0.000    | 0.001     | 0.001 | + |
| D9-3105.8                                                                        | 301.820   | -3.203    | 1.098     | 301.821   | -3.203    | 1.099     | 0.001     | -0.001    | 0.001     | 0.001 | + |
| D9-3114.3                                                                        | 310.923   | 0.457     | -1.196    | 310.924   | 0.456     | -1.195    | 0.001     | -0.001    | 0.001     | 0.001 | + |
| D9-3114.4                                                                        | 310.927   | 0.660     | -0.707    | 310.928   | 0.659     | -0.706    | 0.001     | -0.001    | 0.001     | 0.001 | + |
| D9-3114.5                                                                        | 310.929   | 0.696     | 0.371     | 310.930   | 0.695     | 0.372     | 0.001     | -0.001    | 0.001     | 0.001 | + |
| D9-3114.6                                                                        | 310.914   | 0.169     | 1.413     | 310.915   | 0.169     | 1.414     | 0.001     | -0.001    | 0.001     | 0.001 | + |
| D9-3114.8                                                                        | 310.829   | -3.428    | 1.103     | 310.830   | -3.429    | 1.104     | 0.001     | -0.001    | 0.001     | 0.001 | + |
| D9-3123.3                                                                        | 319.924   | 0.250     | -1.205    | 319.925   | 0.249     | -1.204    | 0.001     | -0.001    | 0.000     | 0.001 | + |
| D9-3123.4                                                                        | 319.930   | 0.449     | -0.717    | 319.931   | 0.449     | -0.717    | 0.001     | -0.001    | 0.000     | 0.001 | + |
| D9-3123.5                                                                        | 319.924   | 0.483     | 0.363     | 319.926   | 0.482     | 0.363     | 0.001     | -0.001    | 0.000     | 0.001 | + |
| D9-3123.6                                                                        | 319.910   | -0.045    | 1.402     | 319.911   | -0.046    | 1.402     | 0.001     | -0.001    | 0.001     | 0.001 | + |

| Vector Group<br>PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |       |   |
|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|---|
| Name                                                                             | Begin     |           |           | End       |           |           | Delta     |           |           | Mag   |   |
|                                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) |       |   |
| D9-3123.8                                                                        | 319.825   | -3.626    | 1.107     | 319.826   | -3.627    | 1.108     | 0.001     | -0.001    | 0.000     | 0.001 | + |
| D9-3132.3                                                                        | 328.925   | 0.023     | -1.208    | 328.926   | 0.023     | -1.208    | 0.001     | -0.001    | -0.000    | 0.001 | + |
| D9-3132.4                                                                        | 328.927   | 0.224     | -0.716    | 328.928   | 0.224     | -0.716    | 0.001     | -0.001    | -0.000    | 0.001 | + |
| D9-3132.5                                                                        | 328.930   | 0.267     | 0.358     | 328.931   | 0.266     | 0.358     | 0.001     | -0.001    | -0.000    | 0.001 | + |
| D9-3132.6                                                                        | 328.921   | -0.263    | 1.404     | 328.922   | -0.264    | 1.404     | 0.001     | -0.001    | -0.000    | 0.001 | + |
| D9-3132.8                                                                        | 328.822   | -3.860    | 1.096     | 328.823   | -3.861    | 1.096     | 0.001     | -0.001    | -0.000    | 0.001 | + |
| D9-3141.3                                                                        | 337.922   | -0.192    | -1.207    | 337.923   | -0.193    | -1.208    | 0.001     | -0.001    | -0.001    | 0.001 | + |
| D9-3141.4                                                                        | 337.928   | 0.006     | -0.729    | 337.929   | 0.006     | -0.730    | 0.001     | -0.001    | -0.001    | 0.001 | + |
| D9-3141.5                                                                        | 337.931   | 0.048     | 0.345     | 337.932   | 0.048     | 0.344     | 0.001     | -0.001    | -0.001    | 0.001 | + |
| D9-3141.6                                                                        | 337.915   | -0.479    | 1.398     | 337.916   | -0.479    | 1.397     | 0.001     | -0.001    | -0.001    | 0.002 | + |
| D9-3141.8                                                                        | 337.817   | -4.074    | 1.092     | 337.818   | -4.076    | 1.091     | 0.001     | -0.001    | -0.001    | 0.002 | + |
| D9-3150.3                                                                        | 346.921   | -0.392    | -1.216    | 346.922   | -0.392    | -1.217    | 0.001     | -0.001    | -0.001    | 0.002 | + |
| D9-3150.4                                                                        | 346.923   | -0.193    | -0.727    | 346.925   | -0.193    | -0.728    | 0.001     | -0.000    | -0.001    | 0.002 | + |
| D9-3150.5                                                                        | 346.921   | -0.147    | 0.348     | 346.922   | -0.147    | 0.347     | 0.001     | -0.000    | -0.001    | 0.002 | + |
| D9-3150.6                                                                        | 346.912   | -0.670    | 1.391     | 346.913   | -0.670    | 1.389     | 0.001     | -0.000    | -0.002    | 0.002 | + |
| D9-3150.8                                                                        | 346.816   | -4.263    | 1.104     | 346.817   | -4.264    | 1.103     | 0.001     | -0.001    | -0.002    | 0.002 | + |
| D9-3159.3                                                                        | 355.909   | -0.631    | -1.209    | 355.910   | -0.632    | -1.211    | 0.001     | -0.000    | -0.002    | 0.002 | + |
| D9-3159.4                                                                        | 355.913   | -0.430    | -0.717    | 355.914   | -0.430    | -0.719    | 0.001     | 0.000     | -0.002    | 0.002 | + |
| D9-3159.5                                                                        | 355.915   | -0.401    | 0.359     | 355.916   | -0.400    | 0.357     | 0.001     | 0.001     | -0.002    | 0.002 | + |
| D9-3159.6                                                                        | 355.907   | -0.932    | 1.396     | 355.908   | -0.931    | 1.394     | 0.001     | 0.001     | -0.002    | 0.003 | + |
| D9-3159.8                                                                        | 355.825   | -4.508    | 1.110     | 355.826   | -4.509    | 1.107     | 0.001     | -0.001    | -0.003    | 0.003 | + |
| D9-3168.3                                                                        | 364.918   | -0.864    | -1.192    | 364.919   | -0.864    | -1.194    | 0.001     | -0.000    | -0.002    | 0.002 | + |
| D9-3168.4                                                                        | 364.922   | -0.667    | -0.705    | 364.923   | -0.667    | -0.706    | 0.001     | 0.000     | -0.002    | 0.002 | + |
| D9-3168.5                                                                        | 364.923   | -0.632    | 0.367     | 364.925   | -0.631    | 0.366     | 0.001     | 0.000     | -0.002    | 0.002 | + |
| D9-3168.6                                                                        | 364.910   | -1.163    | 1.411     | 364.911   | -1.163    | 1.409     | 0.001     | -0.000    | -0.002    | 0.002 | + |
| D9-3168.8                                                                        | 364.806   | -4.748    | 1.108     | 364.808   | -4.749    | 1.107     | 0.001     | -0.001    | -0.002    | 0.002 | + |
| D9-3177.3                                                                        | 373.912   | -1.070    | -1.203    | 373.913   | -1.070    | -1.205    | 0.001     | -0.000    | -0.002    | 0.002 | + |
| D9-3177.4                                                                        | 373.918   | -0.867    | -0.718    | 373.919   | -0.867    | -0.719    | 0.001     | 0.000     | -0.002    | 0.002 | + |
| D9-3177.5                                                                        | 373.919   | -0.825    | 0.357     | 373.920   | -0.825    | 0.355     | 0.001     | 0.000     | -0.002    | 0.002 | + |
| D9-3177.6                                                                        | 373.909   | -1.349    | 1.406     | 373.911   | -1.349    | 1.404     | 0.001     | 0.000     | -0.002    | 0.002 | + |
| D9-3177.8                                                                        | 373.815   | -4.952    | 1.108     | 373.816   | -4.952    | 1.106     | 0.001     | -0.001    | -0.002    | 0.002 | + |
| D9-3186.3                                                                        | 382.909   | -1.284    | -1.191    | 382.910   | -1.284    | -1.193    | 0.001     | 0.000     | -0.002    | 0.002 | + |
| D9-3186.4                                                                        | 382.912   | -1.088    | -0.705    | 382.913   | -1.087    | -0.708    | 0.001     | 0.000     | -0.002    | 0.003 | + |
| D9-3186.5                                                                        | 382.909   | -1.061    | 0.367     | 382.910   | -1.061    | 0.365     | 0.001     | 0.000     | -0.002    | 0.003 | + |
| D9-3186.6                                                                        | 382.894   | -1.600    | 1.417     | 382.895   | -1.600    | 1.414     | 0.001     | 0.000     | -0.003    | 0.003 | + |
| D9-3186.8                                                                        | 382.803   | -5.177    | 1.101     | 382.804   | -5.178    | 1.099     | 0.001     | -0.001    | -0.002    | 0.003 | + |
| D9-3195.3                                                                        | 391.897   | -1.515    | -1.211    | 391.898   | -1.514    | -1.213    | 0.001     | 0.000     | -0.003    | 0.003 | + |
| D9-3195.4                                                                        | 391.901   | -1.309    | -0.718    | 391.902   | -1.308    | -0.720    | 0.001     | 0.001     | -0.003    | 0.003 | + |
| D9-3195.5                                                                        | 391.901   | -1.272    | 0.356     | 391.902   | -1.271    | 0.353     | 0.001     | 0.001     | -0.003    | 0.003 | + |
| D9-3195.6                                                                        | 391.888   | -1.803    | 1.404     | 391.889   | -1.803    | 1.401     | 0.001     | 0.001     | -0.003    | 0.003 | + |
| D9-3195.8                                                                        | 391.812   | -5.396    | 1.100     | 391.814   | -5.396    | 1.097     | 0.001     | -0.001    | -0.003    | 0.003 | + |
| D9-3204.3                                                                        | 400.905   | -1.744    | -1.182    | 400.906   | -1.743    | -1.185    | 0.001     | 0.001     | -0.003    | 0.003 | + |
| D9-3204.4                                                                        | 400.909   | -1.539    | -0.696    | 400.910   | -1.538    | -0.700    | 0.001     | 0.001     | -0.003    | 0.003 | + |
| D9-3204.5                                                                        | 400.910   | -1.496    | 0.384     | 400.911   | -1.494    | 0.380     | 0.001     | 0.002     | -0.003    | 0.004 | + |
| D9-3204.6                                                                        | 400.899   | -2.020    | 1.430     | 400.900   | -2.019    | 1.427     | 0.001     | 0.001     | -0.004    | 0.004 | + |
| D9-3204.8                                                                        | 400.802   | -5.637    | 1.104     | 400.803   | -5.637    | 1.100     | 0.001     | -0.000    | -0.004    | 0.004 | + |
| D9-3213.3                                                                        | 409.894   | -1.941    | -1.208    | 409.895   | -1.940    | -1.211    | 0.001     | 0.001     | -0.003    | 0.003 | + |
| D9-3213.4                                                                        | 409.899   | -1.739    | -0.723    | 409.900   | -1.738    | -0.726    | 0.001     | 0.001     | -0.003    | 0.003 | + |
| D9-3213.5                                                                        | 409.896   | -1.698    | 0.347     | 409.897   | -1.696    | 0.344     | 0.001     | 0.001     | -0.003    | 0.003 | + |
| D9-3213.6                                                                        | 409.887   | -2.221    | 1.400     | 409.887   | -2.220    | 1.397     | 0.001     | 0.001     | -0.003    | 0.003 | + |
| D9-3213.8                                                                        | 409.808   | -5.819    | 1.109     | 409.809   | -5.819    | 1.105     | 0.001     | 0.000     | -0.003    | 0.004 | + |
| D9-3222.3                                                                        | 418.895   | -2.131    | -1.198    | 418.896   | -2.130    | -1.200    | 0.001     | 0.001     | -0.002    | 0.002 | + |
| D9-3222.4                                                                        | 418.897   | -1.933    | -0.695    | 418.898   | -1.932    | -0.698    | 0.001     | 0.001     | -0.002    | 0.002 | + |
| D9-3222.5                                                                        | 418.900   | -1.914    | 0.375     | 418.901   | -1.913    | 0.373     | 0.001     | 0.001     | -0.002    | 0.003 | + |
| D9-3222.6                                                                        | 418.891   | -2.455    | 1.413     | 418.891   | -2.454    | 1.411     | 0.001     | 0.001     | -0.002    | 0.003 | + |
| D9-3222.8                                                                        | 418.806   | -6.007    | 1.104     | 418.807   | -6.007    | 1.101     | 0.001     | 0.001     | -0.003    | 0.003 | + |
| D9-3231.3                                                                        | 427.905   | -2.371    | -1.201    | 427.906   | -2.370    | -1.203    | 0.001     | 0.001     | -0.002    | 0.003 | + |
| D9-3231.4                                                                        | 427.908   | -2.168    | -0.710    | 427.909   | -2.167    | -0.713    | 0.001     | 0.001     | -0.002    | 0.003 | + |
| D9-3231.5                                                                        | 427.899   | -2.134    | 0.368     | 427.900   | -2.132    | 0.365     | 0.001     | 0.001     | -0.002    | 0.003 | + |
| D9-3231.6                                                                        | 427.877   | -2.658    | 1.411     | 427.878   | -2.657    | 1.409     | 0.001     | 0.001     | -0.002    | 0.003 | + |
| D9-3231.8                                                                        | 427.786   | -6.248    | 1.109     | 427.788   | -6.247    | 1.105     | 0.001     | 0.001     | -0.003    | 0.004 | + |

| Vector Group<br>PANDA_PR_Komplett::Auto Vectors: Groups: LA XFEL Gesamt 20140930 |           |           |           |           |           |           |           |           |           |       |   |
|----------------------------------------------------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-------|---|
| Name                                                                             | Begin     |           |           | End       |           |           | Delta     |           |           | Mag   |   |
|                                                                                  | X1<br>(m) | Y1<br>(m) | Z1<br>(m) | X2<br>(m) | Y2<br>(m) | Z2<br>(m) | dX<br>(m) | dY<br>(m) | dZ<br>(m) |       |   |
| D9-3240.3                                                                        | 436.891   | -2.587    | -1.184    | 436.892   | -2.586    | -1.187    | 0.001     | 0.001     | -0.002    | 0.003 | + |
| D9-3240.4                                                                        | 436.894   | -2.391    | -0.691    | 436.895   | -2.389    | -0.693    | 0.001     | 0.002     | -0.002    | 0.003 | + |
| D9-3240.5                                                                        | 436.894   | -2.368    | 0.380     | 436.895   | -2.366    | 0.378     | 0.001     | 0.002     | -0.003    | 0.003 | + |
| D9-3240.6                                                                        | 436.886   | -2.915    | 1.428     | 436.887   | -2.913    | 1.425     | 0.001     | 0.002     | -0.003    | 0.003 | + |
| D9-3240.8                                                                        | 436.799   | -6.482    | 1.107     | 436.799   | -6.481    | 1.104     | 0.001     | 0.001     | -0.003    | 0.003 | + |
| D9-3249.3                                                                        | 445.881   | -2.824    | -1.201    | 445.882   | -2.823    | -1.203    | 0.001     | 0.001     | -0.002    | 0.002 | + |
| D9-3249.4                                                                        | 445.886   | -2.632    | -0.708    | 445.887   | -2.631    | -0.710    | 0.001     | 0.001     | -0.002    | 0.003 | + |
| D9-3249.5                                                                        | 445.887   | -2.600    | 0.368     | 445.888   | -2.598    | 0.366     | 0.001     | 0.002     | -0.002    | 0.003 | + |
| D9-3249.6                                                                        | 445.886   | -3.139    | 1.409     | 445.887   | -3.137    | 1.407     | 0.001     | 0.001     | -0.002    | 0.003 | + |
| D9-3249.8                                                                        | 445.800   | -6.703    | 1.108     | 445.801   | -6.702    | 1.105     | 0.001     | 0.001     | -0.002    | 0.003 | + |
| D9-3258.3                                                                        | 454.895   | -3.031    | -1.187    | 454.896   | -3.030    | -1.188    | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3258.4                                                                        | 454.897   | -2.840    | -0.697    | 454.899   | -2.839    | -0.699    | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3258.5                                                                        | 454.897   | -2.822    | 0.375     | 454.899   | -2.820    | 0.373     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3258.6                                                                        | 454.884   | -3.369    | 1.412     | 454.885   | -3.367    | 1.411     | 0.001     | 0.001     | -0.002    | 0.002 | + |
| D9-3258.8                                                                        | 454.785   | -6.919    | 1.102     | 454.786   | -6.918    | 1.101     | 0.001     | 0.001     | -0.002    | 0.002 | + |
| D9-3267.3                                                                        | 463.874   | -3.251    | -1.193    | 463.875   | -3.250    | -1.194    | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3267.4                                                                        | 463.878   | -3.054    | -0.698    | 463.879   | -3.053    | -0.699    | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3267.5                                                                        | 463.880   | -3.036    | 0.380     | 463.881   | -3.034    | 0.379     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3267.6                                                                        | 463.871   | -3.577    | 1.417     | 463.872   | -3.576    | 1.416     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3267.8                                                                        | 463.782   | -7.147    | 1.109     | 463.784   | -7.146    | 1.107     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3276.3                                                                        | 472.890   | -3.459    | -1.206    | 472.891   | -3.458    | -1.207    | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3276.4                                                                        | 472.893   | -3.265    | -0.719    | 472.894   | -3.264    | -0.720    | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3276.5                                                                        | 472.890   | -3.240    | 0.358     | 472.891   | -3.239    | 0.357     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3276.6                                                                        | 472.873   | -3.782    | 1.402     | 472.874   | -3.781    | 1.402     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3276.8                                                                        | 472.774   | -7.329    | 1.106     | 472.775   | -7.328    | 1.105     | 0.001     | 0.001     | -0.001    | 0.001 | + |
| D9-3285.3                                                                        | 481.873   | -3.674    | -1.202    | 481.874   | -3.673    | -1.202    | 0.001     | 0.001     | -0.000    | 0.002 | + |
| D9-3285.4                                                                        | 481.880   | -3.481    | -0.709    | 481.881   | -3.480    | -0.710    | 0.001     | 0.001     | -0.000    | 0.002 | + |
| D9-3285.5                                                                        | 481.879   | -3.467    | 0.368     | 481.880   | -3.466    | 0.368     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3285.6                                                                        | 481.865   | -4.019    | 1.406     | 481.867   | -4.018    | 1.406     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3285.8                                                                        | 481.781   | -7.539    | 1.110     | 481.782   | -7.538    | 1.109     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3294.3                                                                        | 490.873   | -3.892    | -1.202    | 490.874   | -3.891    | -1.202    | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3294.4                                                                        | 490.877   | -3.699    | -0.706    | 490.879   | -3.698    | -0.706    | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3294.5                                                                        | 490.879   | -3.687    | 0.359     | 490.880   | -3.686    | 0.358     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3294.6                                                                        | 490.865   | -4.241    | 1.405     | 490.866   | -4.240    | 1.405     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3294.8                                                                        | 490.781   | -7.806    | 1.059     | 490.782   | -7.805    | 1.058     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3303.3                                                                        | 499.868   | -4.110    | -1.207    | 499.869   | -4.109    | -1.208    | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3303.4                                                                        | 499.874   | -3.926    | -0.714    | 499.875   | -3.926    | -0.715    | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3303.5                                                                        | 499.875   | -3.922    | 0.361     | 499.876   | -3.921    | 0.360     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3303.6                                                                        | 499.865   | -4.484    | 1.397     | 499.866   | -4.483    | 1.396     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3303.8                                                                        | 499.772   | -8.025    | 1.037     | 499.774   | -8.024    | 1.036     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3312.3                                                                        | 508.865   | -4.325    | -1.201    | 508.867   | -4.322    | -1.199    | 0.002     | 0.002     | 0.002     | 0.003 | + |
| D9-3312.4                                                                        | 508.871   | -4.141    | -0.704    | 508.872   | -4.140    | -0.706    | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3312.5                                                                        | 508.873   | -4.143    | 0.368     | 508.874   | -4.141    | 0.367     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3312.6                                                                        | 508.864   | -4.709    | 1.396     | 508.865   | -4.708    | 1.394     | 0.001     | 0.001     | -0.002    | 0.002 | + |
| D9-3312.8                                                                        | 508.768   | -8.243    | 1.045     | 508.769   | -8.242    | 1.043     | 0.001     | 0.001     | -0.001    | 0.002 | + |
| D9-3321.3                                                                        | 517.869   | -4.534    | -1.199    | 517.871   | -4.533    | -1.200    | 0.002     | 0.001     | -0.002    | 0.003 | + |
| D9-3321.4                                                                        | 517.872   | -4.348    | -0.707    | 517.874   | -4.346    | -0.709    | 0.002     | 0.001     | -0.002    | 0.003 | + |
| D9-3321.5                                                                        | 517.867   | -4.335    | 0.378     | 517.869   | -4.334    | 0.377     | 0.002     | 0.001     | -0.002    | 0.003 | + |
| D9-3321.6                                                                        | 517.857   | -4.888    | 1.406     | 517.858   | -4.887    | 1.404     | 0.001     | 0.001     | -0.002    | 0.002 | + |
| D9-3321.8                                                                        | 517.758   | -8.430    | 1.078     | 517.760   | -8.429    | 1.076     | 0.002     | 0.001     | -0.002    | 0.002 | + |
| D9-3330.3                                                                        | 526.864   | -4.776    | -1.181    | 526.865   | -4.775    | -1.183    | 0.001     | 0.001     | -0.002    | 0.002 | + |
| D9-3330.4                                                                        | 526.866   | -4.576    | -0.692    | 526.867   | -4.575    | -0.694    | 0.001     | 0.001     | -0.002    | 0.002 | + |
| D9-3330.5                                                                        | 526.860   | -4.539    | 0.379     | 526.862   | -4.538    | 0.378     | 0.001     | 0.001     | -0.002    | 0.002 | + |
| D9-3330.6                                                                        | 526.841   | -5.098    | 1.453     | 526.843   | -5.096    | 1.451     | 0.002     | 0.001     | -0.002    | 0.003 | + |
| D9-3330.8                                                                        | 526.753   | -8.665    | 1.111     | 526.755   | -8.663    | 1.110     | 0.002     | 0.001     | -0.002    | 0.003 | + |
| D9-3333.3                                                                        | 529.928   | -4.584    | -1.276    | 529.929   | -4.583    | -1.278    | 0.001     | 0.001     | -0.002    | 0.002 | + |
| D9-3334.3                                                                        | 531.057   | -4.589    | -1.256    | 531.059   | -4.588    | -1.258    | 0.001     | 0.001     | -0.002    | 0.002 | + |
| D9-3334.5                                                                        | 531.092   | -4.602    | 0.203     | 531.094   | -4.601    | 0.201     | 0.001     | 0.001     | -0.002    | 0.002 | + |
| D9-3337.31                                                                       | 533.170   | -4.903    | -1.336    | 533.171   | -4.902    | -1.337    | 0.001     | 0.001     | -0.002    | 0.002 | + |

...TRUNCATED...



