

WP 4: Automated Precision Assembly Procedures: Freiburg interests and plans

Albert-Ludwigs-Universität Freiburg

1. Summary and lessons from Atlas SCT assembly
 - precision, time scale, problems
2. Assembly of single-sided modules on two-sided petals for the upgrade
 - requirements on precision
 - tools for optical alignment and use of fiducials
 - scheme for precise alignment of modules on petal/core
 - apply it in prototyping
 - availability in mass production
3. Measurement techniques, tools for evaluation of precision
 - precision in changing environment, temperature, humidity
 - understand how to measure precision on two-sided petal in x-y-z

