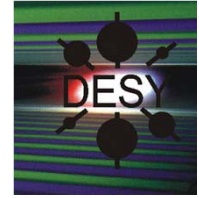


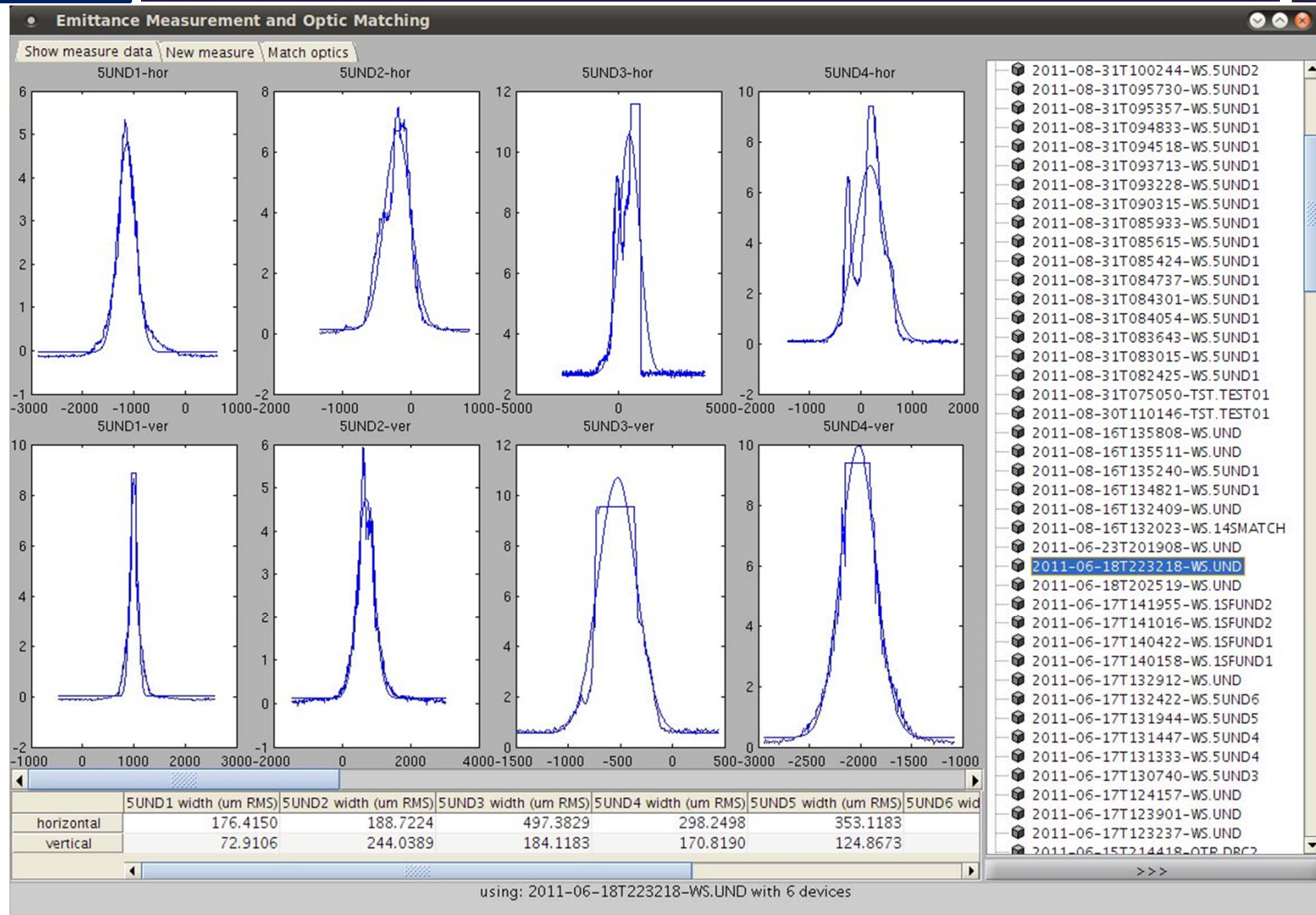
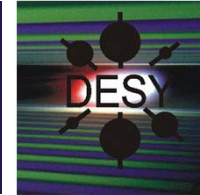


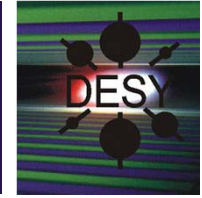
Transverse Phase Space Studies

T. Limberg

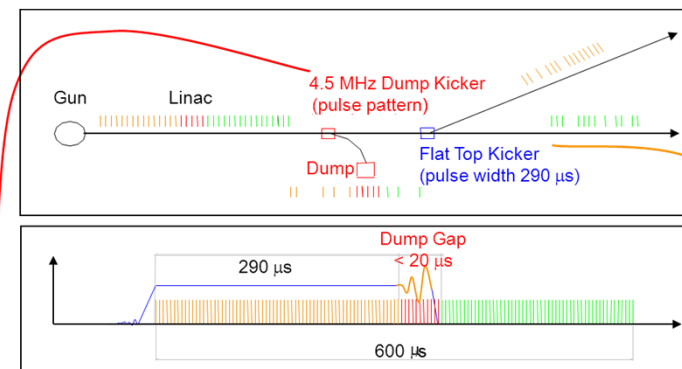


- Lattice Diagnostics
- Further Orbit Feedback Commissioning
- Energy Server Upgrade and Commissioning
- Optics Matching in DBC2, Collimator Region and Undulator

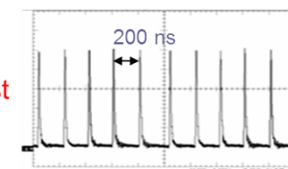




- PSI electronics commissioning
- Kicker Studies

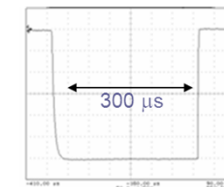


- low accuracy (>1 %)
- 4.5 MHz burst operation

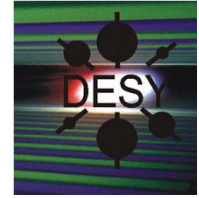


example:
pulsar prototype measurement

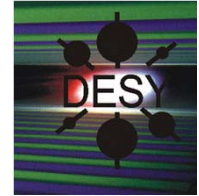
- high accuracy (< 0.01 %)
- 10 Hz operation



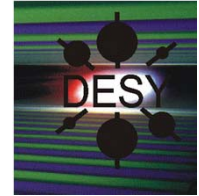
example:
pulsar prototype measurement



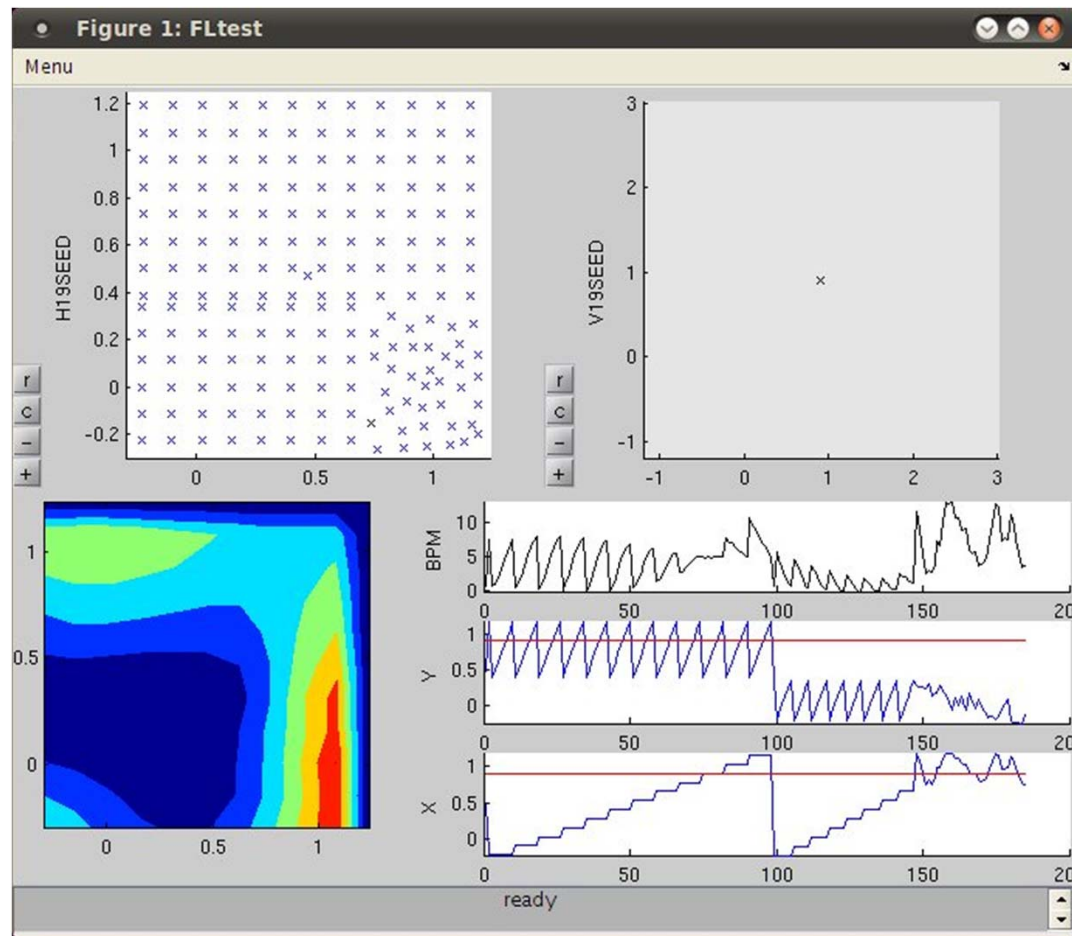
- Famous 'Banana'-shape still not understood
- BBA needs to be continued

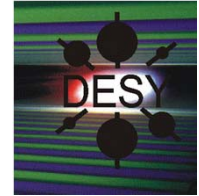


- With gap-variation at sFLASH
- With energy ramping

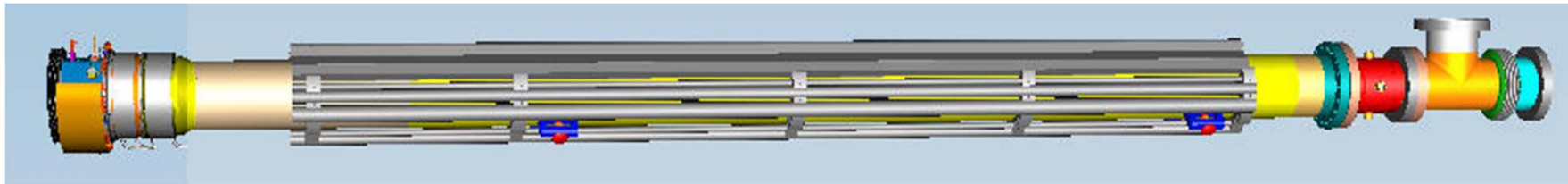


- Automatic orbit launch scan for optimal SASE signal





- Stabilize and optimize machine performance
 - Test region: dump



- Final goal: SASE optimization