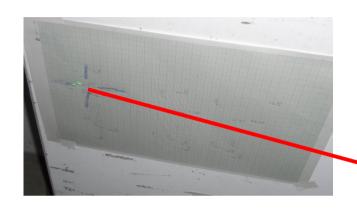
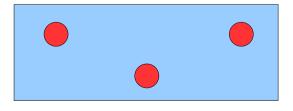
Shape Measurements of Radiators

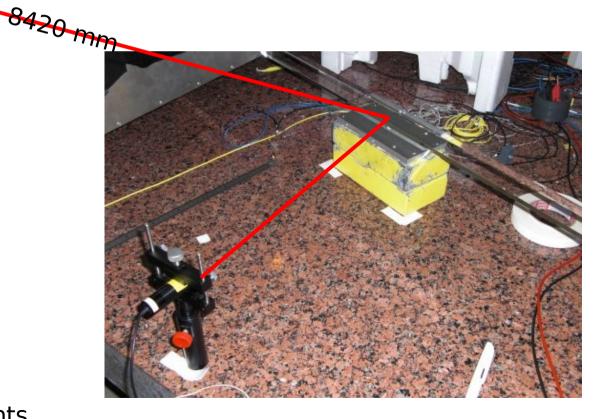
C.Schwarz, GSI



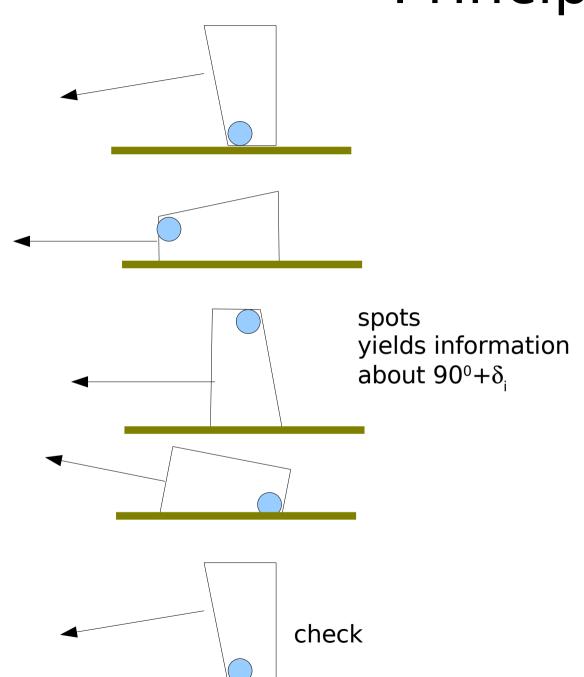
$$\delta y = +-0.5$$
mm
 $--> \delta \theta = +-30$ μrad

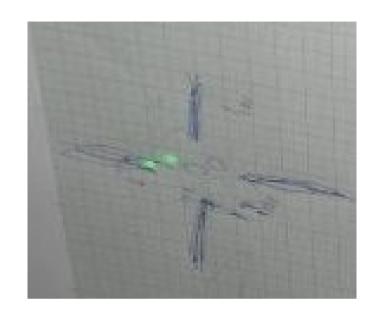


all parts rest on three points

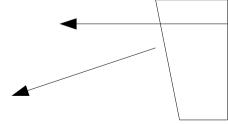


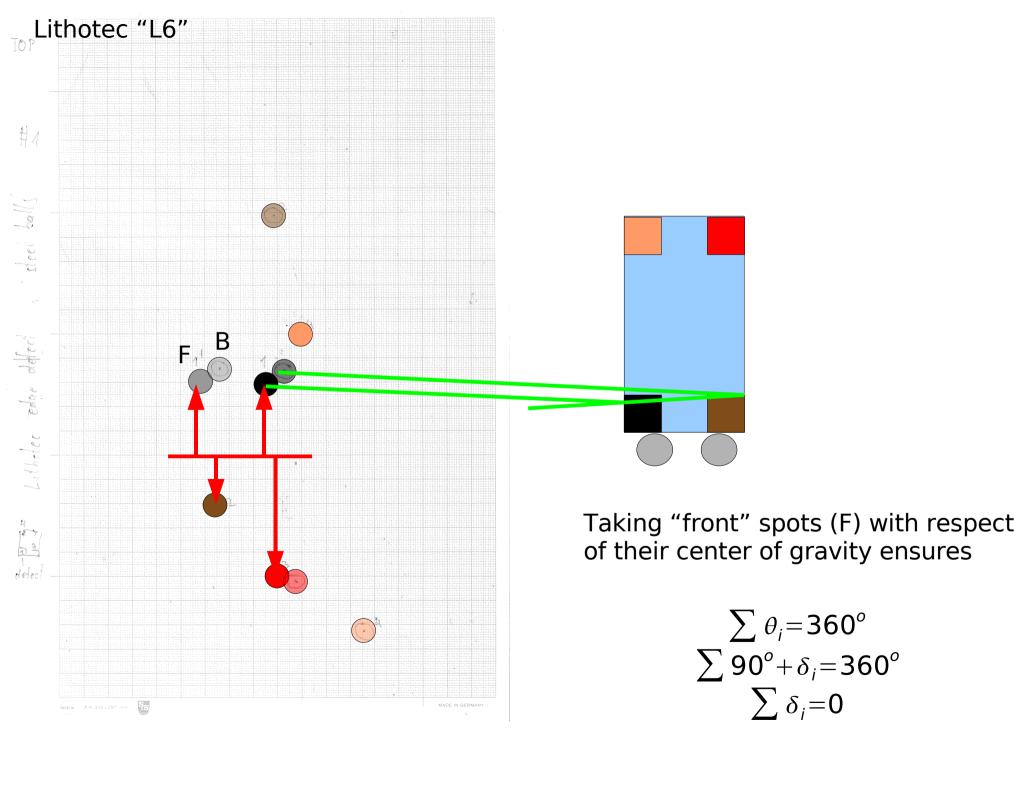
Principle

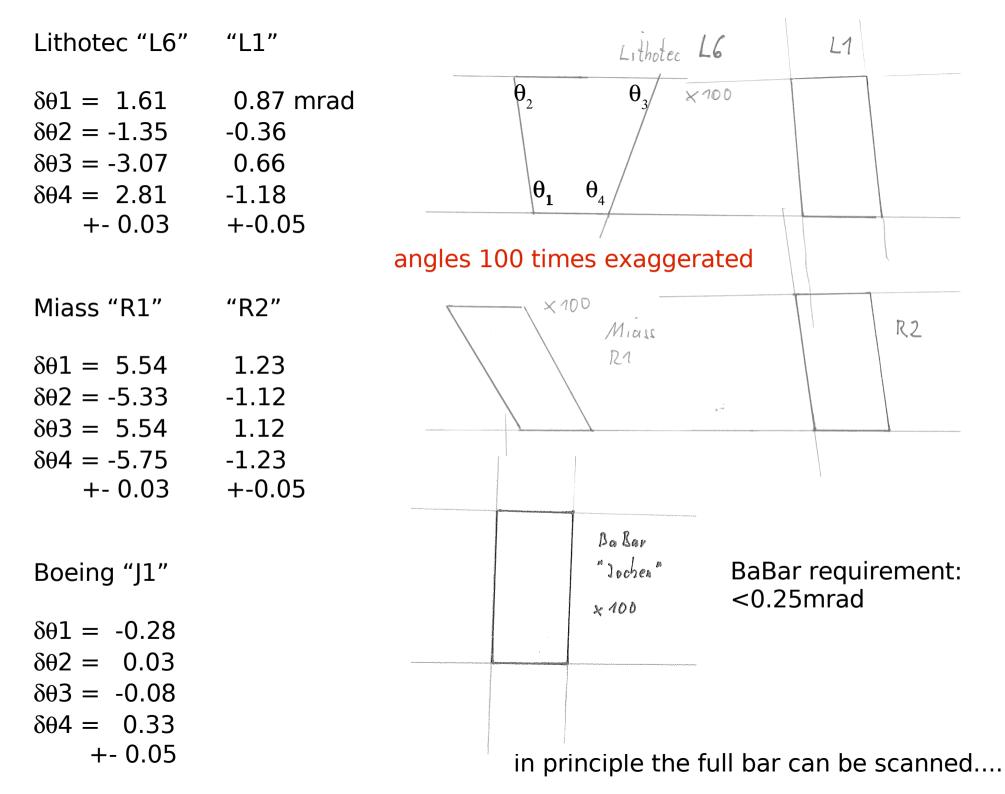




second spot yields information about parallelism







Summary

- Simple setup allows squareness measurements with angular resolution 25μrad (L=10m)
- Radiator bars of three companies were measured
 - Squareness requirements need to be defined
- Front side back side reflections allow to measure parallelism of disks