WP4 : DESY plans for an automated precision assembly

Towards automated module assembly (ATLAS petal and CMS 2S/PS modules)

requirements : dimensions, precision, yield, speed
tools : mechanical handling, optical survey, gluing, ….
definition of the module assembly workflows
survey of commercially available solutions
building and testing of prototype assembly tools
(for ATLAS module production based on Freiburg tools)
setup a production infrastructure for ATLAS and CMS

Quality assurance

Deformation test with optical test setup
Checking thermal behavior in thermal test setup
Use of precision x-y-z table for module survey