

Aachen's Planned Contributions

1. summary of the experience with gantry type assembly of CMS tracker modules
 1. short description of the procedure
 2. collect results on assembly precision
 3. try to understand the limiting factors
 4. assembly speed
2. precision assembly of “2S” (back-to-back strip) modules for the tracker upgrade
 1. understand required assembly precision due to L1 pt track trigger logic
 2. understand and improve the module layout to facilitate this assembly precision
 3. design of a double sided hybrid which might help to solve the alignment problem
 4. work out a scheme for precision assembly of this module type
 5. asses possible assembly precision and speed
 6. build a prototype and verify the assembly scheme
3. double-sided metrology
 1. investigate ways to measure the front-to-back alignment of hybrids, modules (or petals)

