

Status of the MPI Module Production



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Status of the production on April 1, 2005

short middle modules:

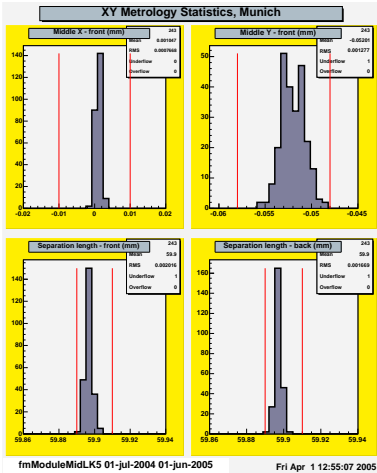
- 96 modules were started ($\epsilon = 85\%$).
- 40 modules are already working on disc 8C.
- 42 modules are ready to be installed onto disc 8A.

long middle modules:

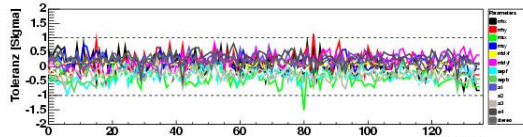
- 252 modules are started.
- 180 modules are bonded.
- 76 modules are finished ($\epsilon = 95\%$).
- 74 modules were send to Prague for final characterisation.
- 48 modules are at Liverpool ready to be mounted onto the next discs.
- About 50 modules of the MPI share are being built using Hamamatsu wafers at Valencia.
- Module production is expected to finish end of May, and the last MPI QA test will be done by the end of July 2005.

The production rate has been increased from 1-2 modules per week to 12/week.

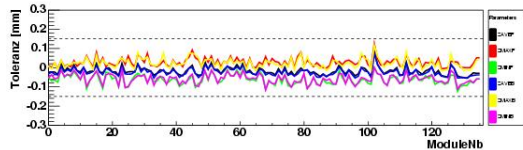
Mechanical precision of *long middle modules*



Parameters within the plane of the module



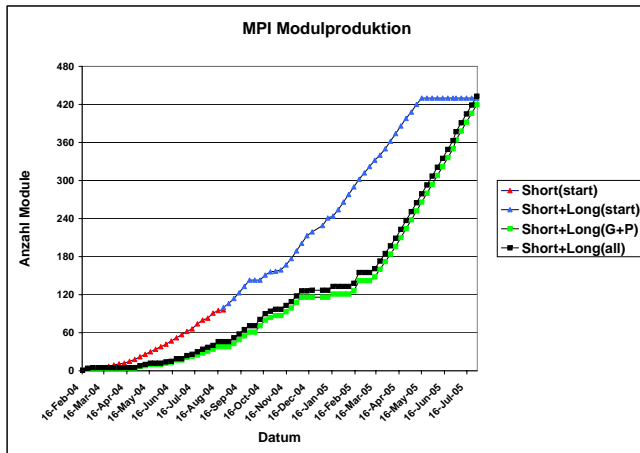
Parameters for the module thickness



→ Time

The tight specifications are met with high rate during the entire production.

The plan to finish up



There is no room for further delays for the rest of the production.

Conclusions and Outlook

- Production runs smoothly (for the first time over a period of 2 months) with a rate of two modules per week, six days a week.
- To catch up with the bonding of modules we extended the operating time of the bond machine and have some modules bonded outside MPI, namely at CERN, Liverpool, RAL, and Valencia.
- Our QA capacity is at the limit once all these modules come back to MPI. This holds true for thermal cycling, as well as for metrology and electrical measurements.
- The last module is expected to leave MPI at the end of July, therefore we increase our engagements on other SCT issues like:
 - 1) The integration of SCT into the inner detector at CERN, (J. Zimmer).
 - 2) Preparation of the alignment software for the inner detector, (R. Härtel, S. Kluth, J. Schieck).

We almost see the end of the production tunnel.