

CMS groups
interest/contribution
to test system(s)

Test systems for/by CMS

- Several groups interested but not yet clear what commitments can be made for what when (CMS phase 1 upgrade on-going):
 - RD53A functional/radiation tests: INFN ?
 - RD53A readout system for sensor test and test beams: ?
 - Future versions of RD53A & CMS final chip: ?
 - Chip test systems
 - Test beam systems
 - Final DAQ integration using same system as CMS outer tracker
Not clear when we want to have common DAQ system with OT.
- Many CMS groups will need to use such test system(s)
 - Buying test board(s), documentation, soft/firm-ware, support
 - Otherwise many will be tempted to make their own small systems

CMS groups

- Test system “contributors”: Hardware/Firmware/Software
 - INFN (Lino Demaria): INFN to determine what groups (e.g. Torino, Pisa) can contribute to test systems and chip testing.
 - Kansas (Andrew Ivanov): Interested in developing test board.
 - Ohio state university (Christopher Hill): To determine what a possible contribution can be.
- Test system “users”: Software contributors
 - FNL (Corrine Mills): RD53 chip testing.
 - CERN (Stefano Mersi, Stella Orfanelli): RD53 chip testing.
 - ETH (Malte Backhaus): RD53 chip testing
 - Plus many others (all groups in CMS phase 2 pixels):
 - Cornell, Hamburg, Seville, Aragon, IFCA, PSI, ?