TDR preparation

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CRYSTALS R&D

⌘ R&D on LYSO → study developed for the acceptance of crystals for the BT are ongoing and will be finished/ refined beginning 2011

- LY and uniformity measurements
- light uniformization process has started, to be optimized (first months of 2011)
- wrapping, paint…interesting tests can be performed as systematic study (first months of 2011)

⌘ Study of different crystals (CsI) → understand the possibility of using it, investigate advantages and disadvantages w.r.t. LYSO (finish June 2011)

TEST BEAM

⌘ CERN → October 11th – 30th.

Data analysis will start immediately during the TB. First results will be available for the next meeting. To be finished beginning 2011

⌘ FRASCATI (with the full matrix) →

No TB available before January, but the requests scheduled for September-December 2010 will be shifted to January-March 2011. Understand if we can find a slot (1-2 weeks) as soon as possible in 2011.

⌘ Electronics would need some more development related to the background issue (mainly in the Barrel). Simulations for different shaping time can be performed and design of optimized boards can be done (I am assuming no major problems will come out during the BT at CERN)

⌘ at the moment it seems that there is no possibility of assemble and test eventual new boards (no funds)

⌘ Mechanics is well understood, stress tests have to be performed. Hope we can finish this part end 2010-beginning 2011

Design for the whole calorimeter, mechanics, cooling, calibration was already under study.
There is available an engineering project and also a quotation for the support is in place.

We should finalize this part for the TDR (within the first months of 2011).