



TB update for 2010

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What we have and to do list



BTF and CERN:

Main point to be discussed is the integration and synchronization of the EMC DAQ and any other ancillary system which is needed at the test (man power and responsibility)

BTF (April 12th May 2nd) :

- fibrometer for the monitoring of the beam should be enough, DAQ is already available (DAQ is in place with 16 ADC channels)
- Scintillator to trigger

CERN (July 19th - August 9th or October 11th - 31st):

- wire chamber + scintillator are available upstream of the test area and are read by their DAQ for beam tuning
- threshold Cerenkov counters 2 installed in T9, 1 optionally available at T10. Equipped with manual gas control and standard PMT. Provide our own HV power supply and readout electronics



April 12 - May 2nd BT at BTF



Crystal procurement:

- 8 crystals ordered at St. Gobain by INFN (5 delivered ring 10 OK) 😊
- 4 to be ordered by INFN (offer OK order is in working phase) 😊
- 13 will be ordered by Caltech OK for April
- CSI crystals for the external ring OK 😊

Electronics:

- few channels with new electronics OK for April + APD's from CMS

DAQ:

needs a dedicated discussion during this meeting, choose the best solution and start working on it, short time

Mechanics:

- Offer from RIBA OK (29.5 Keuro)
- MS compisited, Michel has visited the company last week, ML is sceptic about a possible offer from them within our deadline (earliest delivery mid May), quotation will be available Dec. 14th
- Place order at RIBA (OK)



Few comments about DAQ



- 1) Use the CMS DAQ system and synchronize with a completely independent DAQ from chambers, cherenkov, fibrometer, telescope....
Same trigger and then synchronize on a “event number” base
- 2) Read APD's using only a part of the CMS DAQ and send everything to standard ADC for the DAQ

Choice depends on who will take the responsibility for the DAQ



Simulation: (NEW) to be done

beam line with ancillary and all the material. Study the particle spectrum and beam properties

Telescope:

If we want to have tagged photons at CERN we MUST have the silicon telescope equipped with 4 stations, two upstream and two downstream of the magnet