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# VELO Testbeam 2008

Coordinated by Marina Artuso

## Commissioning

- ELog [of the TestBeam](#).

## Preparation

### Organization and Meetings

- An MOU exists to pursue a VELO testbeam at Fermilab in 2007/2008. In addition we may attempt to do a "zapping" test at CERN.
- A 1st version of the needs and planning: planning.
- A proposal by Tony and Gianluigi for the possible measurements.
  
- The webpage of the MTest Beam Facility can be found here [here](#).
- Instructions to get a FNAL Visitor ID : this link.
  
- General timeline, as of April 15th 2008.
  
- JC's summary of MT6 TestBeam Facility.
- Marina's presentation to the VELO meeting of April 11th.
  
- Indico page to the meetings : [meetings](#). They are registered under the name "VELO FNAL testbeam". *Meeting every Monday, 10am EST, 4pm CERN time.*

### DAQ Hardware

- The summary of hardware needs, as of May 28d 2008. *The dummy module arrived at FNAL, the two irradiated sensors and the 3D sensors will arrive on May 29th and 30th. The electronic boards (1 TELL1, 2 RPT) have been sent and should arrive on May 30th.*
- The specs of the NTC thermistors.
- JC prepared a diagram showing the routing of the main cables between the hut, the alcove and the counting room (April 1st 2008).
- Lars' presentation at the VELO Workshop, Dec 13-14th 2008

### Mechanics


- 080430: Mechanical configuration v1 ppt.
- 080430: Mechanical support and rotation for VELO modules
  
- A study by JC on the optimization of the telescope.
  
- Diagrams of the dummy PCB and of the connectors layout for the feedthrough, from Tony S. The connectors which go to the repeater card are 50 way male D\_SubS but we normally interpose a 4 inch length of ribbon cable with a male at one end and a female at the other between the dummies and the repeaters as a strain relief. As we want to do a 90 degree turn between the module and the repeater, we could do this with the ribbon cable.
- Other schematics : sensor holder and kapton cables.

- Connected module.
- CM's diagrams : 1 and 2.
- Sketch of the cooling blocks on the module.
  
- A picture of the former telescope, just to get an idea... The box is empty right now.
- A picture from Tony A. of a module with short cables and feedthroughs.
- The LHCb note on the resolution as a function of rotation angle. Chris has explained the relevant figures of the paper here.

## Data Analysis

### Documents related to analysis of the data collected in June 2008

- A summary-datafiles.xls: summary of data taken during FNAL test beam run on June 2008
- summary\_datafiles.html: web version

 Twiki page for analysis 2008

## Documents related to beam loss scenarios and zapping tests carried out by other collaborations

### Beam Loss Scenarios, Damage at previous experiments

- cdfdamage.pdf: CDF beam incident
- d0beamloss.pdf: D0 beam incident
- fermilab-conf-05-606-e.pdf: CDF radiation experience
- Joint LHC Machine-Experiments Meeting on Experiment protection from beam failures [↗](#)

### Zapping tests, past present and future

- cmsbeamloss.pdf: beam loss stress tests of CMS modules
- wolfram.pdf: laser and zapping tests of ATLAS modules

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-- GwenaelleLefeuve - 16 Jul 2008

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