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Dream Testbeam November 2011

Shift schedule: November test beam period 31st October - 7th November

people at CERN [↗](#)

day	31 Mo	1 Tu	2 Wed	3 Thu	4 Fri	5 Sa	6 Su	7 Mo
0-8	---	Daniele	Sehwook	Sehwook	Michele	Daniele	Silvia	Silvia
	---	Tommaso	Gabri	Gabri	Laura	Tommaso	Tommaso	Daniele
8-16	John	Richard	Evelin	Evelin	Richard	Richard	Michele	---
	Gabri	Marco	Marco	Daniele	Sehwook	Michele	Sehwook	---
16-24	Guido	Antonio	Fabrizio	Fabrizio	Silvia	Laura	Laura	---
	Antonio	John	Guido	Tommaso	Alessandro	Alessandro	Guido	---

DAQ expert schedule: November test beam period 31st Oct - 7 Nov.

DAQ expert to be called in case of problem: on call shift are intended from 3pm first day in the header to 3pm second day in the header

31 - 1	1 - 2	2 - 3	3 - 4	4 - 5	5 - 6	6 - 7
Gabri	Gabri	Gabri	Ale/Michele	Ale/Michele	Ale/Michele	Ale/Michele

Data Quality schedule: November test beam period 31st Oct - 7 Nov.

The date in the header column is the day of the 4pm meeting in which results should be shown.

1st	2nd	3rd	4th	5th	6th	7th
Fabrizio	Laura					

Measurement program: November test beam period 31st Oct - 7 Nov.

Fiber Module Program:

- Position at theta = 2, ADC readout
- Find coordinates tower module 80 GeV e
- Calibrate tower modules 80 GeV e
- Energy scan with electron
 - ◆ 20, 30, 40, 60, 80, 100, 120, 150, 180 GeV
 - ◆ 50 Kevt in the center (200 Kevt for 120, 150 GeV)
 - ◆ 10 Kevt in each tower center (40 Kevt for 120, 150 GeV)
- Energy scan with pions
 - ◆ 20, 40, 80, 120, 180
 - ◆ 50 kept in the center
- Change the gain and redo electron measurement at 20 GeV

- ◆ ADC, DRS
- ◆ 50 Kevt in the center
- ◆ 10 Kevt in each tower center

Leakage Counters

See [neutron_counter_setup.pdf](#)

matrix, DRS readout

- Calibrate xtal tower with 80 GeV electrons
- Energy Scan
 - ◆ 20, 30, 40, 60, 80, 100, 120, 150, 180 GeV
 - ◆ 50 Kevt in the center (200 Kevt for 120, 150 GeV)
- Change the gain and redo electron measurement at 20 GeV
 - ◆ 50 Kevt in the center

QSTiles detector

Wobbling change (Friday PM)

- Energy scan with electron (Matrix, Fiber (ADC, DRS))
 - ◆ 20, 15, 10, 6, (4) GeV
 - ◆ 50 Kevt in the center
 - ◆ 10 Kevt in each tower center
- Polarization Measurement on the xtals

HV Mappings

You can check here the HV mapping of

- July 2011 testbeam: [HVmappingJuly2011](#)
- November 2011 testbeam: [HVmappingNovember2011](#)

RO Mappings

You can find several readout configurations, depending from the testbeam period:

- July 2011: [ROmappingJuly2011](#)
- November 2011 [ROmappingNovember2011](#)

Logbook

See [Nov_2011.pdf](#)

2011 Online macros

- **Newdream.C** It will display the average shape for all 8 newdream towers (DRS readout) and print to the terminal the height of the peak (baseline subtracted). Run it in root with `.x Newdream.C ("5199")`

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- **Newdream2.C** It will display different towers for different runs. In order to see equalizations. Run with: `.x Newdream2.C("5207", "5208", "5209", "5210")`
- **Leakages_DRS.C** If you want to display the average pulse shape (read with the DRS from run 5269) of the 5 leakage counters that are surrounding newdream. Run with: `.x Leakages_DRS.C("5291")`
- **Ancillary.C** it plots PS, TC, T3 and muon detectors. Run with `.x Ancillary.C("5291")`
- **PWO2.C** displays the 7 towers of the PWO matrix as seen from the beam, both upstream that downstream. On the terminal you have values of the mean average hight (baseline subtracted). Run from root with `.x PWO2.C("runnumber")`

-- GabriellaGaudio - 02-Nov-2011 -- MicheleCascella - 12-Nov-2011

This topic: DREAM > DreamTB2011

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