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General Information

1. You need a DESY indico account. This is not your CERN indico account. It takes a couple hours for someone to approve it. Then fill in the Registration form for the LHCb SciFi testbeam. Both actions can be done through this link:

<https://indico.desy.de/confUser.py?confId=16599>

2. There is a hostel on the DESY site. You can register for it here:

http://guest-services.desy.de/e17/req1/index_eng.html

The DESY-Group is "FH-Test Beam".

3. The dates are 13.02.2017 to 26.02.2017

4. There is a mandatory safety instruction on 13.02. or 20.02. at 13:00. You cannot enter the area without it. You will receive your access card after the training.

Further information about the area can be found here:

http://particle-physics.desy.de/test_beams_at_desy/tb_rules__safety_instructions/index_ger.html

5. The plan will be to arrive at least by late Monday morning, do the safety training at 13:00, get our cards, and setup in the remaining evening and Tuesday.

Beamline Information

General information can be found here: <http://testbeam.desy.de/>

Description of the beam:

<https://www.eudet.org/e26/e28/e182/e283/eudet-memo-2007-11.pdf>

<https://www.eudet.org/e26/e28/e182/e580/eudet-memo-2007-50.pdf>

Logbook

Copy of DAQ Logbook [↗](#)

Data Backup

Data is backed up to CERN EOS under `/eos/lhcb/testbeam/scifi/tb2017_1`

Useful infos

Useful infos to run threshold calibration are stored in the attachments

- `thresholdCalibration.pdf`: Description of how to obtain the correct thresholds for the PACIFIC
- `thresholdCalibration.tex`: Description of how to obtain the correct thresholds for the PACIFIC

Run Plan

last updated: 20.02.2017

Testbeam Plan

Threshold	PACIFIC setting	Module position		Overvoltage	Electron energy	Complete	
		Y	X				
0.5/1.5/2.5	4	-10	-24.2	3.5	2	Done	2M events per setting
1.5/2.5/3.5	4	-10	-24.2	3.5	2	Done	
1.5/2.5/4.5	4	-10	-24.2	3.5	2	Done	
0.5/1.5/2.5	3	-10	-24.2	3.5	2	Done	
1.5/2.5/3.5	3	-10	-24.2	3.5	2	Done	
1.5/2.5/4.5	3	-10	-24.2	3.5	2	Done	
0.5/1.5/2.5	4	390	-24.2	3.5	2	Done	
1.5/2.5/3.5	4	390	-24.2	3.5	2	Done	
1.5/2.5/4.5	4	390	-24.2	3.5	2	Done	
1.5/2.5/3.5	3	390	-24.2	3.5	2	Done	
1.5/2.5/4.5	3	390	-24.2	3.5	2	Done	
1.5/2.5/3.5	4	790	-24.2	3.5	2	Done	
1.5/2.5/4.5	4	790	-24.2	3.5	2	Done	
1.5/2.5/3.5	3	790	-14.8	3.5	2	Done	
0.5/1.5/2.5	3	790	-14.8	3.5	2	Done	
1.5/2.5/4.5	3	790	-14.8	3.5	2	Done	
0.5/1.5/2.5	4	790	-14.8	3.5	2	Done	
1.5/2.5/3.5	4	790	-14.8	3.5	2	Done	
1.5/2.5/4.5	4	790	-14.8	3.5	2	Done	
0.5/1.5/2.5	3	390	-20	3.5	2	Done	
1.5/2.5/3.5	3	390	-20	3.5	2	Done	
1.5/2.5/4.5	3	390	-20	3.5	2	Done	
0.5/1.5/2.5	4	390	-20	3.5	2	Done	
1.5/2.5/3.5	4	390	-20	3.5	2	Done	
1.5/2.5/4.5	4	390	-20	3.5	2	Done	
1.5/2.5/3.5	4	-10	-24.2	3.5	1	Done	500k (450Hz, not determined well)
1.5/2.5/3.5	4	-10	-24.2	3.5	3	Done	2000k (420Hz, mean over 10min.)
1.5/2.5/3.5	4	-10	-24.2	3.5	6	Done	3000k (33 Hz)
1.5/2.5/3.5	4	-10	-24.2	3.5	4	Done	500k (also ~450Hz)
1.5/2.5/3.5	4	-10	-24.2	3.5	5	Done	500k (also ~450Hz)

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1.5/2.5/3.5	4	-10	-24.2	3.0	2	
1.5/2.5/3.5	4	-10	-24.2	4.5	2	
1.5/2.5/3.5	4	-10	-24.2	5.5	2	
1.5/2.5/3.5	4	-10	-24.2	6.5	2	
0.5/1.5/2.5	3	1790(?)	?	3.5	2	
1.5/2.5/3.5	3	1790(?)	?	3.5	2	
1.5/2.5/4.5	3	1790(?)	?	3.5	2	
0.5/1.5/2.5	4	1790(?)	?	3.5	2	
1.5/2.5/3.5	4	1790(?)	?	3.5	2	
1.5/2.5/4.5	4	1790(?)	?	3.5	2	
1.5/2.5/3.5	4	-10	?	3.5	2	20 degrees
1.5/2.5/3.5	4	-10	?	3.5	2	10 degrees
1.5/2.5/3.5	4	-10	?	3.5	2	3 degrees
1.5/2.5/3.5	4	-10	?	3.5	2	15 degrees
1.5/2.5/3.5	4	-10	?	3.5	2	25 degrees
1.5/2.5/3.5	4	-10	?	3.5	2	20 degrees
1.5/2.5/3.5	4	-10	?	3.5	2	6 degrees
1.5/2.5/3.5	4	-10	?	3.5	2	5 degrees

-- BlakeLeverington - 2016-12-07

- thresholds_PACIFIC_week1.pdf: The manually corrected thresholds for both PACIFICs for setting3 and setting4 (testbeam week 1)

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