Please fill the table for your shift with this information:

- **PROGRAM DONE**: please write the type of measurements you have done, with reference to run number range and to logbook pages
- **BEAM INFO**: note periods with no beam, report related problems
- **ASIDE ACTIVITIES**: please add information on aside activities such as debugging put references to logbook pages
- **OBSERVED PROBLEMS**: add **Meaningful** information of problems encountered in your shift

Shift Date	16.7.2012
Shift Time	16-24
Shifter Names	Daniele, John
Program Done	Found center of PbF2 crystal; started runs to compare polarizer orientations. Conclusion: saturation of the narrow Cerenkov pulses distorts the ADC means. Lowered HV from 700V to 600V.
Beam Info	-180 GeV pion
Aside Activities	
Observed Problems	

Shift Date	17.7.2012
Shift Time	0-8
Shifter Names	Antonio, Gabriella
Program Done	Trying to understand the polirizer filter in the PBF2 xtal matrix. Trying to set electron beam, but the rate was very low. Logbook pages 20-23 ; Runs from 6700 to 6706
Beam Info	H8C.012 +80 GeV electron
Aside Activities	none
Observed Problems	mismatch of the T1&T2 numeber as provided out of the trigger box and that made with NIM coincidence using discriminator signals

Shift Date	17.7.2012
Shift Time	8-16
Shifter Names	Michele C., Evelin
Program Done	HV scan. Removed PS detector to start shower depth study, HV scan restarted again due to the large effect of PS detector removal. Ilias has tried to fix the electron beam. Trying to reproduce the polarization effect observed in 2010.
Beam Info	H8C.012 +80 GeV electron
Aside Activities	none
Observed Problems	One hour without beam

Shift Date	17.7.2012
Shift Time	16-24
Shifter Names	Alan Sill, Richard Wigmans
Program Done	Found reason for lack of difference between orientation directions for polarizers for PbF2 crystal: it turns out that this crystal scrambles polarization when viewed along its long axis. Switched to negative polarity for beams and established good pion and electron

	beams. Also verified XY distributions for both veto and non-veto events. (Note "veto" means its inverse here, i.e., events for particles that pass throughthe hole in the veto counter.) Changed angle of crystal to 30 degrees and started program to repeat depth dependence of BSO signal.
Beam Info	pi- 180 GeV, e- 80 GeV
Aside Activities	Studied polarization properties of PbF2 crystal
Observed Problems	none

Shift Date	18.7.2012
Shift Time	0-8
Shifter Names	Antonio, Gabriella
Program Done	BSO xtal polarization measurements. Scan as function of the depth of the material (lead) positioned upstream the crystal. No veto and no preshower detectors in the daq. Favorable orientation of the polarizer filter: scan from 0 X_0 to 10 X_0 (Runs from 6759 to 6770; logbook pages 36-38). Scan with polarizer in unfavorable orientation,scan from 4 Xo to 10 Xo (runs from 6771 to 6779, logbook page 39)
Beam Info	good beam all the night except 20 min 5 am; MD started at 7 am; run 6779 only 5k evt
Aside Activities	none
Observed Problems	none

Shift Date	18.7.2012
Shift Time	16-24
Shifter Names	guido,nural
Program Done	restart after md at 19:00; problems with the beam dumps; e- 80 gev beam file lost. New e- 80 gev file : H729. Re-do all X0 scan due to the new beam setup. Data taking restarted at 11 pm. 4/3/2 X0 unfovorable
Beam Info	New e- beam file H729
Aside Activities	problem with pedestal of chan S3L solved by Agostino who replaced the amplificator chip
Observed Problems	beam dumps blocked; Ilias called

Shift Date	19.7.2012
Shift Time	0-8
Shifter Names	Silvia, Evelin
Program Done	BSO polarisation scan in X0, unfavorable polarizer (pag 47 logbook). Redone measurements of yesterday night because beam file is changed
Beam Info	New e- beam file H729
Aside Activities	
Observed Problems	

Shift Date	19.7.2012
Shift Time	8-16

Shifter Names	Antonio/Nural
Program Done	BSO xtal polarization measurements. Completed the X0 scan with polarizer in unfavorable orientation (pag 47 of the logbook). X0 scan with polarizer in favorable orientation from run 6817 to run 6830 (pag 48 of the logbook).
Beam Info	80GeV e- beam file H729, no beam from 7:30 to 09:30; from 11:00 to 11:40 and from 12:10 to 13:30.
Aside Activities	none
Observed Problems	none

Shift Date	19.7.2012
Shift Time	16-24
Shifter Names	John, Daniele
Program Done	Richard setted beamfiles for different electron energies, moved the table with Pavia 2011 newdream in the beam, started to look at signals
Beam Info	
Aside Activities	
Observed Problems	

Shift Date	20.7.2012
Shift Time	0-8
Shifter Names	Silvia, Evelin
Program Done	Found edges of newdream with pion beam, setted HV for each tower with e beam 80 Gev in order to have ~ 800 ADC cnts above pedestal. Seen that the centre of each tower found with pion beam is different (in particular on X coordinate wrt to teh electron beam (dept of shower and angle of calorimeter..) we did again a scan in position. Found new coordinates for towers and setted HV properly. Started calibration with 20k events in each tower
Beam Info	pi beam + 80GeV e- beam file H729
Aside Activities	
Observed Problems	

Shift Date	20.7.2012
Shift Time	8-16
Shifter Names	Antonio & Nural
Program Done	Started the energy scan in T3. We have discovered a problem with response: we observe non linearity in the Cerenkov at high energy, due to the C3 phototube saturation. Moving the C3 HV from 830V to 700V and start a new energy scan (pag. 56-58 of the logbook). The new energy scan has been stopped because we discovered that there is a linearity problem (counts/GeV) in the low energy region (see again pag 56-58 of the logbook): the problem seems to be related to the ADC (see pag 56-59 of the logbook).
Beam Info	80GeV e- beam file H729 for calibration; see the twiki page for the beam files of the energy scan.
Aside Activities	none

Observed Problems	see the "program done"

Shift Date	20.7.2012
Shift Time	16-24
Shifter Names	Tomasso, Alan
Program Done	Energy scan , no mixers. Results show detector is very linear in Cerenkov signal also. Still using scope since ADC readout problem is not understood. Proceeded to test C3, S3 with mixers also.
Beam Info	e- various energies
Aside Activities	
Observed Problems	DAQ frequently stops due to mismatch between number of scope events and number of VME events when running at low rates

Shift Date	21.7.2012
Shift Time	0-8
Shifter Names	Sehwook, Gabri
Program Done	Energy scan with electron beam on tapered base, tapered with independent power supply for last dynode and standard base. Run 6982 to 7029, logbook pages 69-74
Beam Info	beam stable all time
Aside Activities	none
Observed Problems	none

Shift Date	21.7.2012
Shift Time	8-16
Shifter Names	Guido, Silvietta
Program Done	Test ADC after Alessandro fix; apparently the linearity has been recovered but also very funny behaviour on some channel (saturation....). Back to Oscilloscope. Start testing the light mixers 4/2 cm.
Beam Info	-80 Gev electrons for the mixer tests; good beam during the whole shift
Aside Activities	light mixer installation
Observed Problems	stop of DAQ during the run; see Alan comments

Shift Date	21.7.2012
Shift Time	16-24
Shifter Names	Alan, Tommaso
Program Done	continue light mixer tests
Beam Info	stable beam
Aside Activities	
Observed Problems	

Shift Date	22.7.2012
Shift Time	0-8

Shifter Names	Sehwook, Gabri
Program Done	Completed light mixer test; Uninstalled light mixer and back to normal configuration; rotated table at 0 degrees, and found module position (logbook page 82); Started data taking for electron to pion separation based on the different time structure of the signal. 80 GeV electron and pion data taken, 30 GeV pion ongoing (runs 7094 - 7097; logbook page 83)
Beam Info	stable beam
Aside Activities	Measured lead plates (see logbook page 84)
Observed Problems	none

Shift Date	22.7.2012
Shift Time	8-16
Shifter Names	Laura, Silvietta
Program Done	ended data taking for e-pi separation run 7098 e- 30 GeV - run 7099 e/pai 125 GeV (pg. 80).Polarization studies (pg 85)
Beam Info	stable beam
Aside Activities	
Observed Problems	none

Shift Date	22.7.2012
Shift Time	16-24
Shifter Names	Alan, Franco
Program Done	
Beam Info	
Aside Activities	tapered bases mounted on each tower of newdream
Observed Problems	oscilloscope not working with 4 channels

Shift Date	23.7.2012
Shift Time	0-8
Shifter Names	Silvia- Tommaso
Program Done	equalised gains of the 4 towers wrt to T3 that we tested on this week (now tapered bases for each PMT). Equalization done after the stage of linear fan-in used to sum signals for the four towers (we have only two scope signals available). Equalisation done also after the sum of the four signals. Energy scan started with beam in the centre of newdream
Beam Info	energy scan, elecrons
Aside Activities	
Observed Problems	

Shift Date	23.7.2012
Shift Time	8-16
Shifter Names	Richard, Daniele
Program Done	module scan in 2 cm steps
Beam Info	80 gev e-
Aside Activities	start Pisa modules install

Observed Problems	

Shift Date	23.7.2012
Shift Time	16-24
Shifter Names	Guido, Franco
Program Done	Start Pisa Module analysis. Find module position; find position of towers. Fast energy scan on C3 S3
Beam Info	80 gev e-
Aside Activities	end of Pisa module installation
Observed Problems	beam dump blocked after the access

Shift Date	24.7.2012
Shift Time	0-8
Shifter Names	Laura,Tommaso
Program Done	equalization Pisa Module (logbook pg.98) - energy scan Pisa module center (e-) : 80 - 100 - 125 -150 GeV
Beam Info	no/instable beam from 5.15; from 5.54 no beam
Aside Activities	
Observed Problems	DQA problem: beam was not detected. Bob and Gabriella solved it. About 2 h were lost in data acquisition

Shift Date	24.7.2012
Shift Time	8-16
Shifter Names	John, Evelin
Program Done	Continued the energy scan Pisa module center (e-) : 50 GeV, 30 GeV, 20 GeV - Started the position scan of Pisa module with 80 GeV electrons (Logbook p.98-100)
Beam Info	no beam before 8:50;
Aside Activities	
Observed Problems	

Shift Date	24.7.2012
Shift Time	16-24
Shifter Names	Daniele,Franco L.
Program Done	Second copper module from Pisa. Position scan. Energy scan for tower 3. Logbook p. 101-104
Beam Info	
Aside Activities	
Observed Problems	

Shift Date	24.7.2012
Shift Time	0-8
Shifter Names	Silvia Tommaso
Program Done	equalization towers second Cu module, Energy scan, beam in the centre
Beam Info	energy scan

Aside Activities	ntuple analysed offline, no problems encountered
Observed Problems	some runs (7368) with empty events in the scope. Some jittering coming out from the adder on S channel

Shift Date	25.7.2012
Shift Time	16-24
Shifter Names	Laura Franco
Program Done	-
Beam Info	no beam - other problems after machine development
Aside Activities	Bob cardini gabriella worked to solve ADC problems.(pg. 107-109 logbook)
Observed Problems	we'll continue to use oscilloscope!

Shift Date	26.07.12
Shift Time	00:00-08:00
Shifter Names	Daniele, Fabrizio
Program Done	Nothing ! We weren't able to setup a good 60 GeV pion beam file to derive the low energy electron beam files
Beam Info	no beam till 02:00
Aside Activities	modified the macro to view the monitor histograms; included ch.3 and ch.4 of the digital scope
Observed Problems	no comment

Shift Date	26.07.12
Shift Time	8-16
Shifter Names	guido, tommaso
Program Done	
Beam Info	no beam 10 till 16
Aside Activities	
Observed Problems	beam off

Shift Date	26.07.12
Shift Time	16-24
Shifter Names	Silvia, Alessandro
Program Done	Cu_2 module, T3 energy scan at low energy beam
Beam Info	low energy files, wobbling changed to 60 GeV
Aside Activities	Ilias changed some beam parameter and doubled beam rate
Observed Problems	

Shift Date	26.07.12
Shift Time	
Shifter Names	
Program Done	
Beam Info	

Aside Activities	
Observed Problems	

Shift Date	26.07.12
Shift Time	0-8
Shifter Names	Sehwook Laura
Program Done	energy scan in center module (logbook pg. 112-113)
Beam Info	stable beam
Aside Activities	none
Observed Problems	the indicated scope setting at 8 GeV are probably not correct. See the logbook

Shift Date	27.07.12
Shift Time	8-16
Shifter Names	John, Evelin
Program Done	Completed energy scan in center module (logbook p.112), ene: 4 GeV- 8 GeV. Done scan position (with ele 20 GeV) (logbook p. 115). Started energy scan in T3, ene : 20 GeV, 30 GeV, 40 GeV, 50 GeV (logbook p. 114)
Beam Info	
Aside Activities	
Observed Problems	

Shift Date	27.07.12
Shift Time	16-24
Shifter Names	
Program Done	
Beam Info	
Aside Activities	
Observed Problems	

Shift Date	28.07.12
Shift Time	0-8
Shifter Names	Alan Laura
Program Done	Pb module: 30 geV at center of each tower - energy scan tow3 - energy scan module center (logbook pg 118-121
Beam Info	stable beam
Aside Activities	none
Observed Problems	

Shift Date	26.07.12
Shift Time	
Shifter Names	
Program Done	
Beam Info	

Aside Activities	
Observed Problems	

Shift Date	28.07.12
Shift Time	16-24
Shifter Names	Fabrizio Laura
Program Done	Cu-Al module Energy scan tow3 - calibration of leakage counters started- the calorimeter slope has been removed (logbook pg. 131-133)
Beam Info	1 hour missing
Aside Activities	leakages counters installed for calibration
Observed Problems	

Shift Date	26.07.12
Shift Time	
Shifter Names	
Program Done	
Beam Info	
Aside Activities	
Observed Problems	

Shift Date	26.07.12
Shift Time	
Shifter Names	
Program Done	
Beam Info	
Aside Activities	
Observed Problems	

Shift Date	26.07.12
Shift Time	
Shifter Names	
Program Done	
Beam Info	
Aside Activities	
Observed Problems	

-- GabriellaGaudio - 16-Jul-2012

This topic: DREAM > JulyTBShiftSummary
Topic revision: r46 - 2012-07-29 - unknown