

Polarization Measurements With BSO

We performed a scan as function of the thickness of the material (lead) positioned upstream the crystal. DAQ informations:

- Crystal data acquired with the scope (scale for each run reported on the logbook)
 - ◆ channel 1 = X1 = left side = downstream; HV = 770 V
 - ◆ channel 2 = X2 = right side = upstream; HV = 720 V
- No veto, no preshower detector included in the daq
- 80 GeV electron (beam file H8C.001)
- table position: x = 53.6; y = 73.65; angle = ~30 degrees (angle of the xtal box wrt the plane perpendicular to the beam)

Favorable orientation of the polarizer filter (horizontal)

- Data taken on 18.7 shift 0-8
- logbook pages 36-38

Unfavorable orientation of the polarizer filter (vertical)

- Data taken on 18.7 shift 0-8
- logbook pages 39

Depth (Xo)	Run Favorable	Run Unfavorable
0	6759	
1	6761	
2	6763	
3	6764	
4	6765	
5	6756	6771
6	6766	6772
7	6757	6773
8	6767	
9	6768	
10	6770	
12		
14		
16		
18		
20		
25		

Measurements redone from the 19th evening because the beamfile was changed (now H8C.729)

Depth (Xo)	Run Favorable	Run Unfavorable
0	6817	6802
1	6818	6801
2	6820	6800
3	6821	6799
4	6822	6798

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5	6825	6803
6	6826	6804
7	6827	6805
8	6828	6806
9	6829/6830	6807
10	6831	6808
12	6832	6809
14	6833	6810
16	6836	6812
18	6838	6813
20	6839	6814
25	6840	6816

-- AlanSill - 21-Jul-2012

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