

review of horizontally limiting slits and filters  
2013-03-12

as requested 2012-10-18  
both C and D lines

modification 2013-02-28

seq	aperture	filter
(0)	>8 mm	none
(1)	>2 mm	4 $\mu\text{m}$ diamond
(2)	>1 mm	6 $\mu\text{m}$ aluminum
(3)	>1 mm	2 $\mu\text{m}$ molybdenum
(4)	171 $\mu\text{m}$	none
(5)	35 $\mu\text{m}$	none
(6)	105 $\mu\text{m}$	none
(7)	35 $\mu\text{m}$	4 $\mu\text{m}$ diamond
(8)	105 $\mu\text{m}$	4 $\mu\text{m}$ diamond

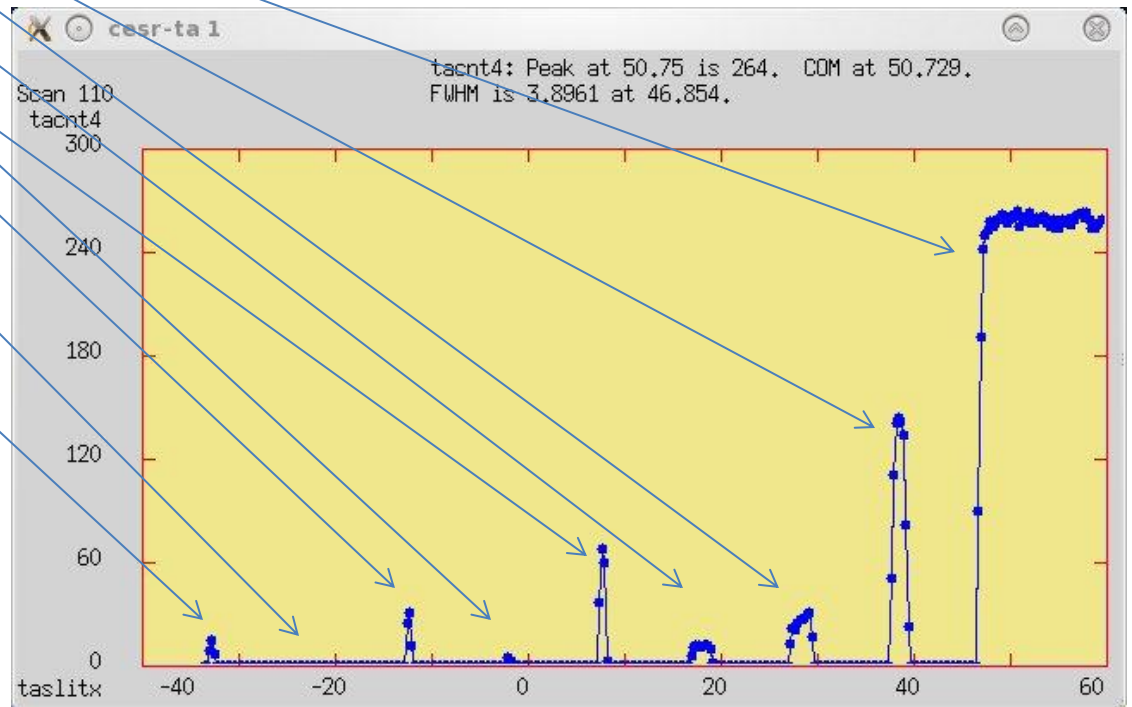
seq	aperture	filter
(7)	50 $\mu\text{m}$	4 $\mu\text{m}$ diamond

## locating slits in D-line

initial slow scan, 2012-11-28, log 1453

as requested 2012-10-18  
both C and D lines

seq	aperture	filter	location
			2012-12-06
			log 1485
(0)	>8 mm	none	50
(1)	>2 mm	4 $\mu$ m diam	38.5
(2)	>1 mm	6 $\mu$ m alum	28.9
(3)	>1 mm	2 $\mu$ m moly	18.2
(4)	171 $\mu$ m	none	7.7
(5)	35 $\mu$ m	none	-2.1
(6)	105 $\mu$ m	none	-12.5
(7)	35 $\mu$ m	4 $\mu$ m diam (this one is OK, found with 2.3 GeV)	-22.75
(8)	105 $\mu$ m	4 $\mu$ m diam	-32.9



## locating slits in D-line

as requested 2012-10-18  
both C and D lines

2012-12-06  
log 1485

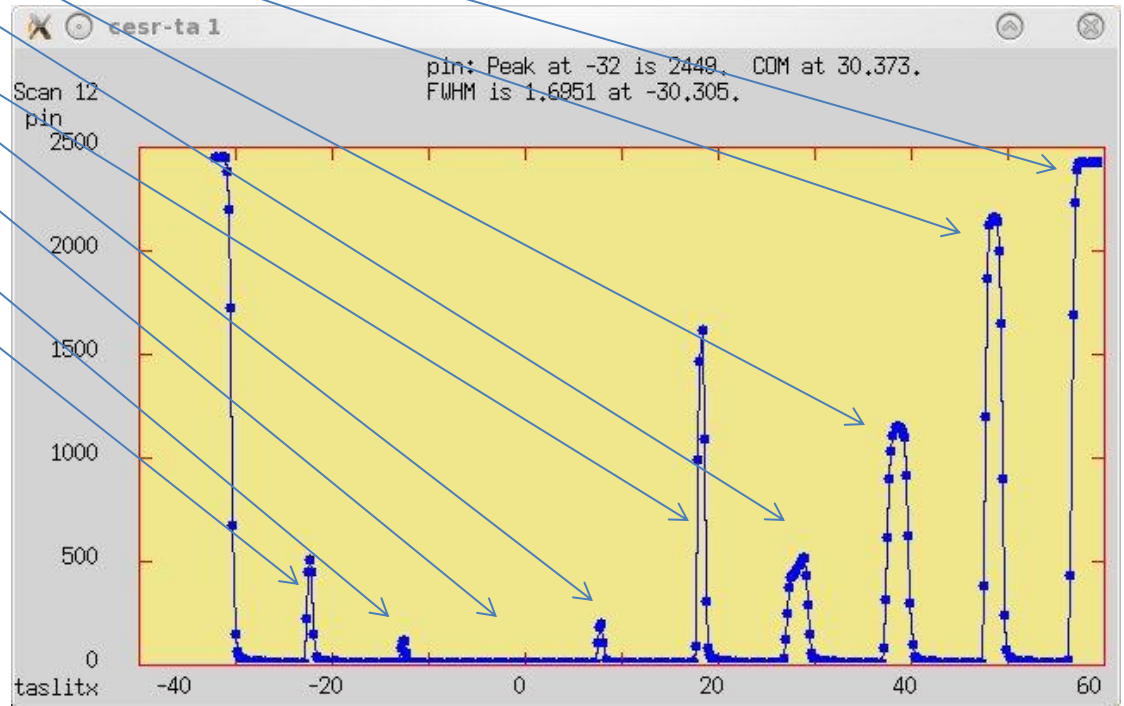
seq	aperture	filter	location	relative signal 2.3 GeV	width
(0)	>8 mm	none	50	1	{48.5 : 60} log 1453
(1)	>2 mm	4 $\mu$ m diam	38.5	0.5	full width 1mm log 1459, 1466
(2)	>1 mm	6 $\mu$ m alum	28.9	0.15	
(3)	>1 mm	2 $\mu$ m moly	18.2	0.05	
(4)	171 $\mu$ m	none	7.7	0.25	
(5)	35 $\mu$ m	none	-2.1	0.02	
(6)	105 $\mu$ m	none	-12.5	0.15	
(7)	35 $\mu$ m	4 $\mu$ m diam	-22.75	0.01	
(8)	105 $\mu$ m	4 $\mu$ m diam	-32.9	0.05	

# locating slits in C-line

initial slow scan, 2012-11-21, log 1438

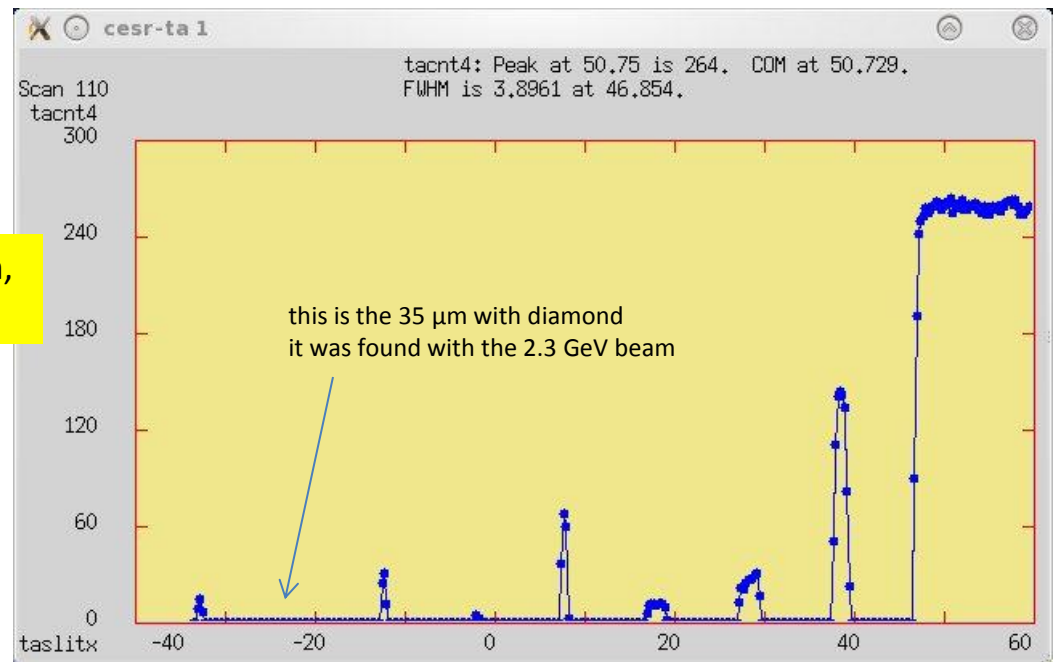
as requested 2012-10-18  
both C and D lines

seq	aperture	filter	location
			2012-11-21
			log 1438
(0)	>8 mm	none	{ 57.2 : 60 }
(1)	>2 mm	4 μm diam	48.5
(2)	>1 mm	6 μm alum	38.7
(3)	>1 mm	2 μm moly	28.8
(4)	171 μm	none	18.3
(5)	35 μm	none	7.8
(6)	105 μm	none	?????
			(not found)
(7)	35 μm	4 μm diam	-12.5
(8)	105 μm	4 μm diam	-22.2

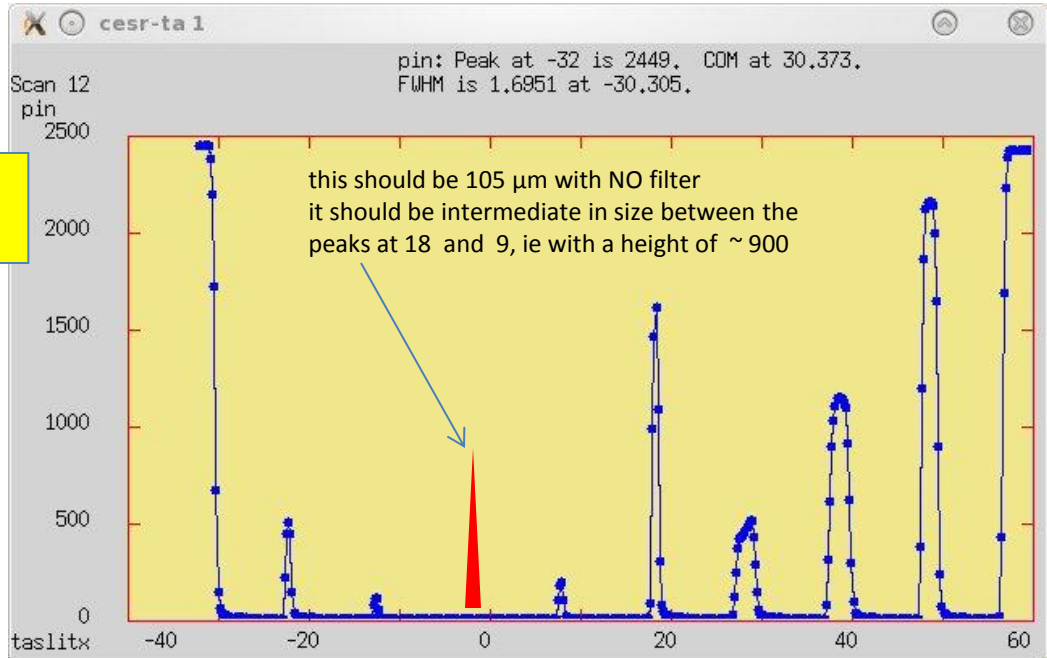


compare the C-line with D-line

**D-line** initial slow scan,  
2012-11-28, log 1453



**C-line** initial slow scan,  
2012-11-21, log 1438



We do not know why there is no light through the slit #6.

On 2012-11-27, we asked Aaron to look at the non-transmitting slit in C-line.

Note, the cassette #6 is removed.

For reference, we see the round diamond window in cassettes #1 and #7 as expected.

The inset shows light through the slit.

2013-03-12: verified that this is picture is C-line

