

eLogbook 13-July-2003 Night

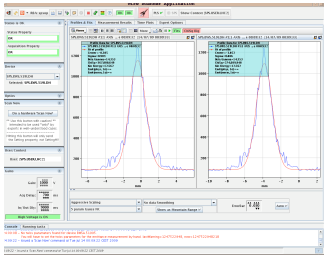
SPS



is logged.

FILTER: Piquets Expert INFO

[NEW: For the mobile devices, try the eLogbook mobile beta v0.2](#)

#	Time	H C 2	Comment
1	23:00		Oscar, Anthony Created by spsop from cwo-ccc-a7lc
2	23:56		New fill for new coast. Created by spsop from cwo-ccc-a0lc
3	00:09		New coast. Emitt. meas without BU at the beginning of the coast. Sigma = 0.9 => EmittNormrms = 1.3 microm.  20090714001005.png Created by spsop from cwo-ccc-a4lc
4	00:13		same collimator position as previous fill left jaw right jaw 6.1 mm -4.9 mm Created by spsop from CWO-CCC-A2LF
5	00:16		Beam smaller than before. TAL at 59.8 mm Step 500 mum for the TAL -> 60.3 mm -> 60.8 mm -> 61.3 mm -> 61.8 mm -> 62.3 mm -> 62.8 mm -> losses seen Putting the crystal in channelling -> crystal 2 60.9 mm in transverse. Moving it to go to previous reference. 69.8 -> moving by 0.5 mm -> 70.36 mm -> 70.91 mm -> 72 mm -> 72.5 mm -> 73.6 mm -> 73.88 mm -> 74.098 mm

-> 74.3 mm
 -> 74.5 mm
 -> 74.9 mm
 -> 75.2 mm
 -> 75.4 mm -> losses -> leaving this position

Angle already in channelling 1343 murad

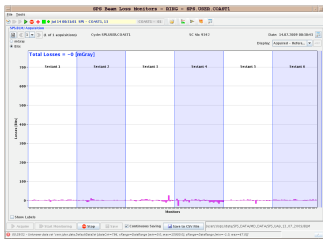
Now putting the blow up -> 1/10 than before
 Moving right jaw to rest -> 20 mm

Created by spsop from CWO-CCC-A2LF

6 00:27 Start to put some diffusion by step of 0.1.

Created by spsop from cwo-ccc-a4lc

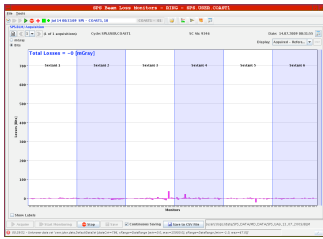
7 00:30 BLM before angular scan -> channeling now



20090714003107.png

Created by spsop from CWO-CCC-A2LF

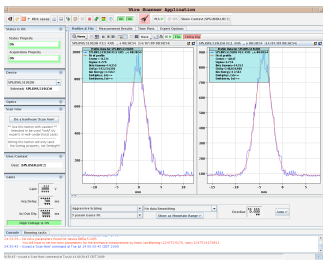
8 00:31 angle 1800 murad.



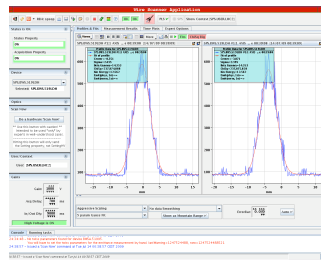
20090714003213.png

Created by spsop from CWO-CCC-A2LF

9 00:31 Emitt. meas. during the coast after 0.2 in total for the BU. Sigma = 1.7 => EmittRmsNorm = 4.5 micrometers. Sigma = 2.4 => EmittRmsNorm = 9 micrometers.



20090714003248.png



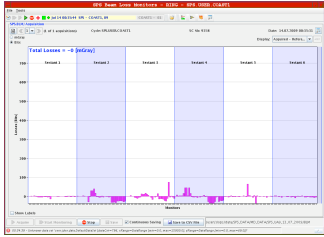
20090714003934.png

Created by spsop from cwo-ccc-a5lc

10 00:32 moving LHC collimator -> left jaw in -> 7 mm
 Right jaw out -> -20 mm

Created by spsop from CWO-CCC-A2LF

11 00:34 Put at 59.5 mm the TAL and crystal in amorphous.
 Angle 1781 murad
 Starting angular scan.



20090714003547.png

Created by spsop from CWO-CCC-A2LF

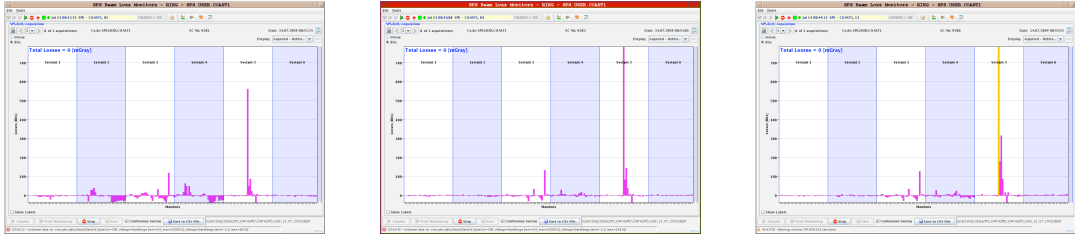
12 00:38 Putting crystal in channelling. Angle about -1300 murad.

Created by spsop from CWO-CCC-A2LF

13 00:40 Channelling found at -1162 murad.

Created by spsop from CWO-CCC-A2LF

14 00:41 Increasing blowup
 More losses in ss5



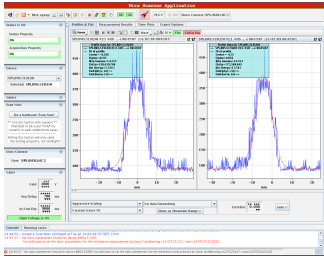
20090714004237.png 20090714004311.png 20090714004418.png

Created by spsop from CWO-CCC-A2LF

15 00:43 Putting the quartz IN.

Created by spsop from CWO-CCC-A2LF

16 00:45 Another meas. of BU.



20090714004544.png

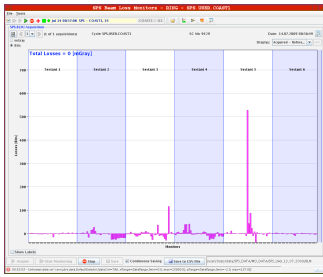
Created by spsop from cwo-ccc-a5lc

Quartz IN -> 35 mm
 Stopped at 26.2 mm

Changing the delay between the two channels by 10 ns

Channelling with constant loss rate

17 00:46



20090714005714.png

Created by spsop from CWO-CCC-A2LF

Aligning the linear detector (Ck in the tank)-> moving 10 mm

- > 36.1 mm
- > 37.1 mm
- > 38.2 mm
- > 38.7 mm
- > 40.2 mm
- > 40.7 mm
- > 41.2 mm
- > 42.2 mm
- > 43.4 mm

18 01:06

-> 43.47 scanning by 20 mm

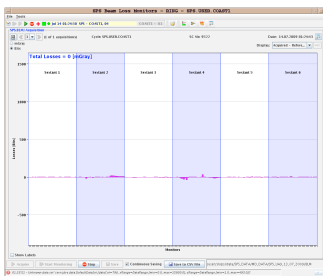
Last position 43.61 mm

Putting in park position at -20 mm

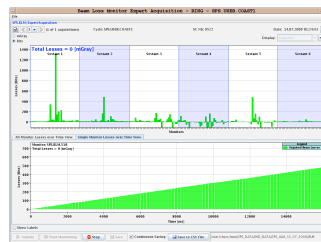
Created by spsop from CWO-CCC-A2LF

Reference losses with channelling -> collimation

19 01:24



20090714012454.png



20090714012506.png

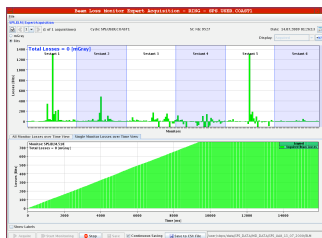
Created by spsop from CWO-CCC-A2LF

Putting the crystal in amorphous angle at -1743 murad

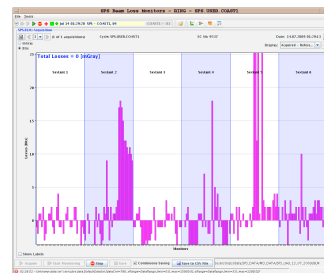
20 01:42



20090714012619.png



20090714012632.png



20090714012924.png

Created by spsop from CWO-CCC-A2LF

21 01:43

Putting the scatterer in leaving the crystal not in channelling.
Scatterer (1 mm W).

40 mm -> 45 mm

Removing the crystal and leaving the W to check the losses
-71.3 mm cryst



20090714013607.png

Created by spsop from CWO-CCC-A2LF

22 01:47

Taking out the scatterer, putting the crystal in
Carefull, timing of logbook went bad.

Now 01:43

Removing the scatterer.

Angular scan. Aligning the roman pot h2 (como detector)

Channelling

Angle = -1354 murad

Pos 75.7 mm

Moving roman pot h2 -> 01:47 time

-> 30 mm

-> 30.6 mm

-> 31.5 mm

-> 32.5 mm

-> 33.5 mm

-> 34.015 mm -> losses stop.

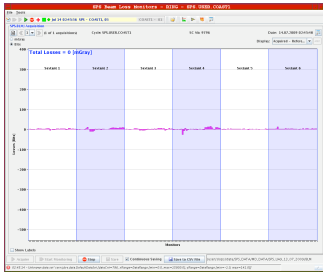
Turning on the the detector. Channelling

Created by spsop from CWO-CCC-A2LF

increasing by 1 mm the roman pot position.

23	01:55	<p>TAL 59.5 mm</p> <p>35 mm -> losses increasing 36 mm 37 mm 38 mm 39 mm</p> <p>Fill lost new filling</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
24	02:11	<p>Starting a new coast</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a7lc</p>
25	02:17	<p>Collimator at 6.3 mm left -5.2 mm right</p> <p>Putting back same as before left right 6.0 mm and -4.9 mm</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
26	02:19	<p>TAL in at 60 mm</p> <p>Putting back the channelling for loss maps.</p> <p>Going to 62 mm. Going 62.5 mm -> 62.8 mm -> losses leaving like this. Now crystal 2. Putting at 50 mm -> 67.5 mm -> 72.7 mm -> 74.7 mm -> 74.9 mm -> 75.5 mm -> losses _> leaving like this</p> <p>1768 murad angle -> amorphous</p> <p>Angular scan of crystal, then in channelling. Taking out the LHC collimator. Putting the TAL at 59.8 mm.</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
		<p>Channeling found at 1326 murad</p> <p>Taking out LHC colilmatorc -> now in only left</p> <p>Taking lossmaps.</p>

27 02:45

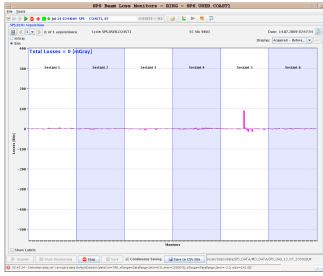


20090714024600.png

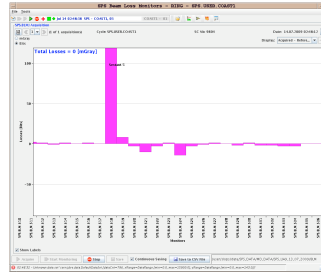
Created by spsop from CWO-CCC-A2LF

Now completely LHC collimator out.

28 02:47



20090714024809.png



20090714024842.png

Created by spsop from CWO-CCC-A2LF

29 03:03

fill lost by wrong setting
refilling

Created by spsop from CWO-CCC-A2LF

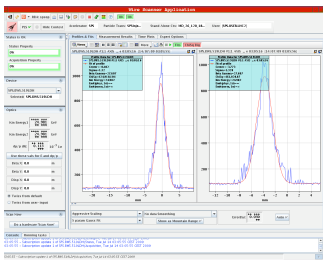
30 03:04

Coll. position: 6.0/-4.8 mm
TAL: 62.95 mm
CRY2: 75.62 mm
Scatterer: 53.02 mm

Created by spsop from CWO-CCC-A2LF

31 03:06

bws measurement. Emitt wrong cause lost settings of the optics...



20090714030712.png

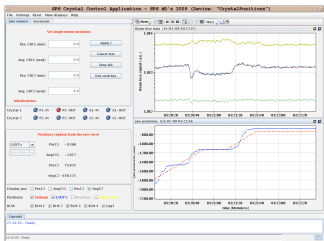
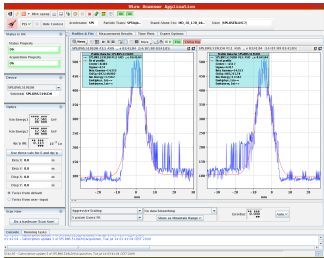
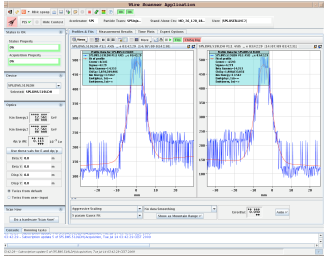
Created by spsop from cwo-ccc-a5lc

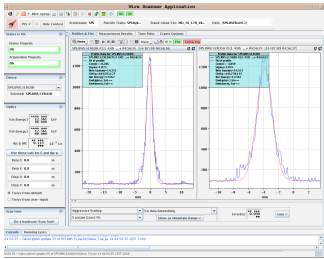
32 03:17

Scatterer out (33 mm)
TAL -3 mm out (60 mm)
Collimator out (both jaws)

Created by spsop from CWO-CCC-A2LF

Now we begin an angular scan

33	03:18	 <p>20090714032242.png</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
34	03:35	<p>Angular position goniometer 2: -1283 murad Channeling observed</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
35	03:41	<p>Dumper gain 0.25</p>  <p>20090714034210.png</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
36	03:42	<p>damper 0.5</p>  <p>20090714034242.png</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a5lc</p>
37	03:51	<p>goniometer 2 at -1609 murad</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
38	03:55	<p>Now we begin an angular scan (-2000 to -1000 murad)</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
39	03:59	<p>Angular scan from -1000 back to -1500 murad: channelling</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
40	04:09	<p>Channelling observed at 1284 murad</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
41	04:18	<p>Inserting the scatterer (from 33 to 53 mm)</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
42	04:24	<p>Crystal out -9 mm (75.6 to 66.6)</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
43	04:27	<p>Crystal back to 75.58 Scatterer out</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
44	04:29	<p>Roman pot 1 in: h2 position to 29.6 mm</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>

45	04:30	dumper at zero	Created by spsop from cwo-ccc-a4lc
46	04:32	Roman pot 1: h2 to 33.525 mm	Created by spsop from CWO-CCC-A2LF
47	04:42	Roman pot 1 out Scatterer out Crystal out	Created by spsop from CWO-CCC-A2LF
48	04:51	New coast Centering collimator	Created by spsop from CWO-CCC-A2LF
49	04:55	Left POSIT 6.0 mm Right POSIT -5.0 mm Left ANGLE = Right ANGLE = 0 mrad  20090714045700.png	Created by spsop from CWO-CCC-A2LF
50	04:57	Wire scan Normalized emittance 1.23 micron	Created by spsop from CWO-CCC-A2LF
51	04:57	TAL at 60 mm	Created by spsop from CWO-CCC-A2LF
52	04:59	TAL at 62.5 mm out of 3 mm	Created by spsop from CWO-CCC-A2LF
53	05:00	TAL at 59.5	Created by spsop from CWO-CCC-A2LF
54	05:00	Roman pot 1: h2 at 30 mm	Created by spsop from CWO-CCC-A2LF
55	05:01	Roman pot 1: h2 at 34 out of 1 mm, seen losses	Created by spsop from CWO-CCC-A2LF
56	05:03	Roman pot at 33: losses descent	Created by spsop from CWO-CCC-A2LF
57	05:04	Crystal in 56.823 mm	Created by spsop from CWO-CCC-A2LF
58	05:05	Crystal aligned at 75.590	Created by spsop from CWO-CCC-A2LF
59	05:09	Collimator out	Created by spsop from CWO-CCC-A2LF
60	05:20	Roman pot out to 31.078 mm	Created by spsop from CWO-CCC-A2LF
61	05:26	Roman pot out	Created by spsop from CWO-CCC-A2LF
62	05:27	Angular scan from -1976 murad to -812	Created by spsop from CWO-CCC-A2LF
		Channeling observed	

63	05:31	<div style="display: flex; justify-content: space-around;">   </div> <p style="text-align: center;">20090714053146.png 20090714053228.png</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
64	05:33	<p>Angular scan from -2100 to -1586: channeling observed</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
65	05:39	<p>Channeling at 1635 murad</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
66	05:41	<p>Slower angular scan</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
67	05:52	<p>Ckov for first Ckov alignment s.. 44.350 mm found the coincidence looking for the best alignment by 100 mm 44.57 mm 44.67 mm 44.64 mm cumulating data...</p> <p>now going out with the first Ckov 44.251 mm 44.151 mm 44.052 mm</p> <p>Going back in with steps of 0.050 mm 44.202 mm 44.300 mm 44.70 mm (now steps of 0.01)</p> <p>During the scan beam was in channelling</p> <p>Angular scan of the chrystal 2 to see channleing+volumes refl with ckov</p> <div style="text-align: center;">  <p>20090714055534.png</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p> </div>
68	06:17	<p>2nd angular scan versus from out to in and then 3rd from in to out to take Ckov data</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>
69	06:19	<p>finished with Ckov. Now going to MEDIPIX.</p> <p style="text-align: right;">Created by spsop from CWO-CCC-A2LF</p>

70 06:22 Out Ckov1.
 MEDIPIX in
 29.676 mm -> seeing losses
 Out by 3 mm.
 26.76 mm

Putting crystal in channelling.
 Reducing lifetime to see more singal.

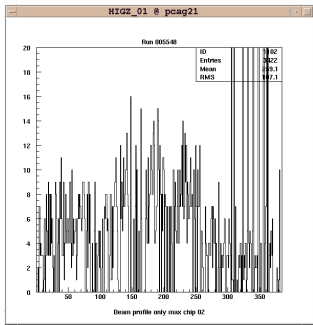
Created by spsop from CWO-CCC-A2LF

71 06:32 moving the medipix by 0.5 mm steps and more blow-up (0.4)
 Too much in.
 26.5 mm
 Now removing the TAL (59.5 ->56.5 mm)
 Not clear for us what we see.

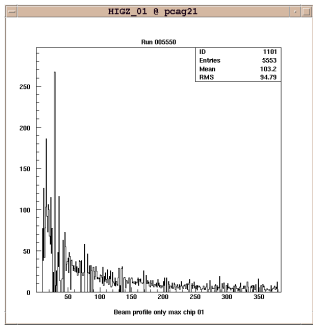
Putting back the tal.
 Removing the medipix

Created by spsop from cwo-ccc-a4lc

72 06:37 Checking the Si detector in parking position.
 Crystal 2 in channelling.



20090714064605.png



20090714065012.png

Created by spsop from cwo-ccc-a4lc

73 06:47 Roman pot in for SI detector:
 25 mm
 30 mm -> taking one run
 30.5 mm ->taking one run
 31 mm ->taking one run
 31.54 mm ->taking a run
 32.5 mm -> taking a run
 33.0 mm -> taknig a run -> losses _> touching the primary beam with the pot.
 32.85 mm -> taking a run

Collimator scan to see position of the pot.
 Collimator cut the channeled beam.
 Taking one run with Si.

Created by spsop from CWO-CCC-A2LF

FAULTS

#	Group	Fault	Element	Description	Begin	End	Duration
NO FAULT							

