

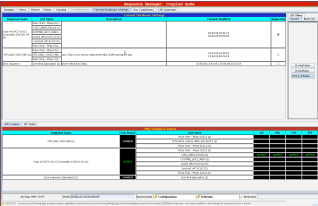
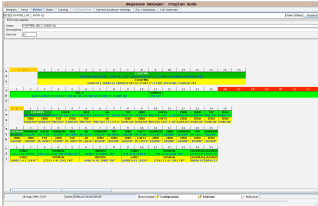
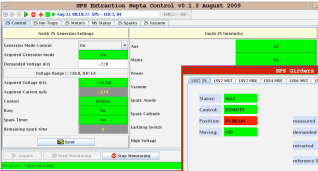
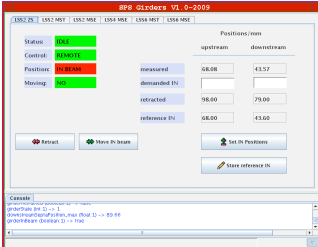
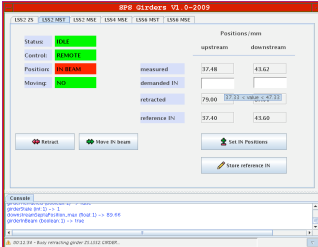
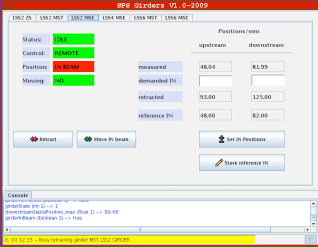
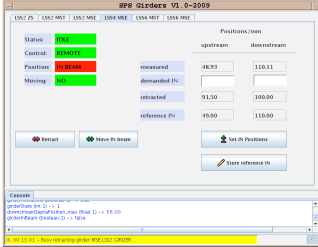
# Monday - August - 2009 Night

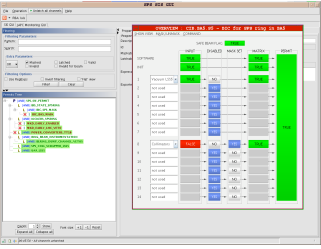
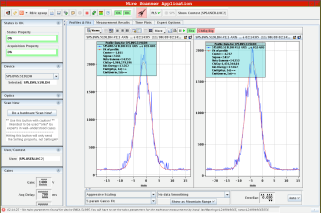
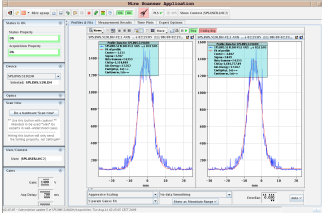
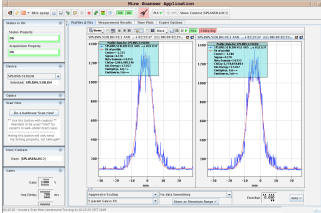
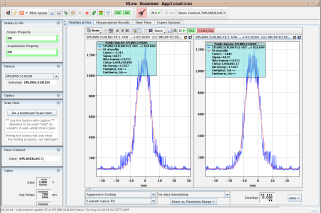
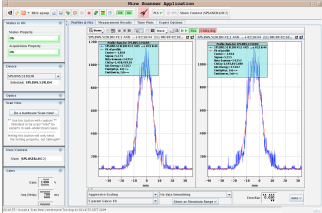
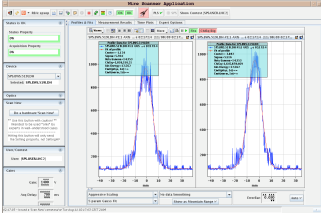
SPS *emehat*

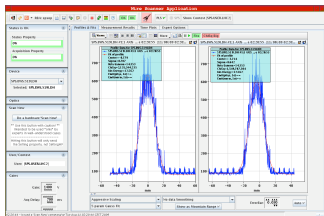
is logged.

FILTER: Piquets  Expert  INFO

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

#	Time	FTLNHGC	Comment
1	23:00	1	Louis, Rene <a href="#">Created by spsop from cwo-ccc-a6lc</a>
2	23:49	1	Problem to get TRX1 restarted, the piquet is already there and will have a look at it. <a href="#">Created by spsop from cwo-ccc-a6lc</a>
3	00:05	1	Changed SC  20090811000545.png  20090811000610.png <a href="#">Created by spsop from cwo-ccc-a6lc</a>
4	00:09	1	Switched to mode "no extraction" Set septa voltage to 0v and retracted the girders LSS2 ZS, LSS2 MST, LSS2 MSE, LSS4 MSE Switched extraction kicker MKE4 to disabled. Switched off MSE2183 and MST2177M (equip state) Removed the SIS mask: TT10 current survey.  20090811001024.png  20090811001102.png  20090811001223.png  20090811001256.png  20090811001323.png

			Created by spsop from cwo-ccc-a6lc
5	00:18	TRX1 has restarted.	Created by spsop from cwo-ccc-a6lc
6	00:41	test first Coast . Ok	Created by spsop from cwo-ccc-a6lc
7	00:58	Coast request from the FC	Created by spsop from cwo-ccc-a6lc
8	01:04	<p>We've masked the following entries in SIS:</p> <ul style="list-style-type: none"> <li>-SPS_COLL_SCRAPPER_LSS5</li> <li>-UA9_LSS5</li> <li>-BIC_BA5_MASK</li> </ul> <p>Thereafter we've masked in BIS BA5 the Collimators.</p>  <p>20090811010805.png</p>	Created by spsop from cwo-ccc-a6lc
9	02:00	End of coast	Created by spsop from cwo-ccc-a6lc
10	02:13	New coast request	Created by spsop from cwo-ccc-a6lc
11	02:14	<p>Horizontal emittance measurement vs. time with noise ON (trim value = 2).  The first meas. (already with noise) at 02:14:05 gave a sigmax = 2.6 microm, while a meas at 02:20:55 gave a sigmax = 8.7 microm.  Reminder on the noise excitation:</p> <ol style="list-style-type: none"> <li>1) Timing SX.RF7-6-8 Enable (with value of 1000) on COAST1.</li> <li>2) Trim value of 2 on the last 2 points of TUNEMEAS / DAMPER-H on the pulsed function (i.e. on LHC2).</li> </ol>  <p>20090811021443.png</p>  <p>20090811021522.png</p>  <p>20090811021550.png</p>  <p>20090811021618.png</p>  <p>20090811021653.png</p>  <p>20090811021724.png</p>	



20090811022107.png

Created by spsop from cwo-ccc-a61c

12 02:19 A vertical driver amplifier needs to be changed. W. Hofle will inform RF power specialists.  
Created by spsop from cwo-ccc-a61c

13 02:29 Start the alignment campaign  
Created by spsop from cwo-ccc-a21c

14 02:51 COMPASS called: they see that the pressure on the CEDAR is rising and asked us to call the BI specialist. We've tried to call Mr. Manarin and Mr. Spanggaard but did not succeed to contact them. We call COMPASS to inform them...  
Created by spsop from cwo-ccc-a61c

15 02:59 COMPASS got the pressure setting ok again... We have the impression that the coasting beam blocks the timing for these kind of settings...  
Created by spsop from cwo-ccc-a61c

16 03:05 PS RF vavity 78 faulty , change to 77  
Created by spsop from cwo-ccc-a61c

17 03:20 Collimator centring: left = +5.5mm; right = -4.8mm  
Created by spsop from cwo-ccc-alle

18 03:20 Start TAL alignment.  
Created by spsop from cwo-ccc-alle

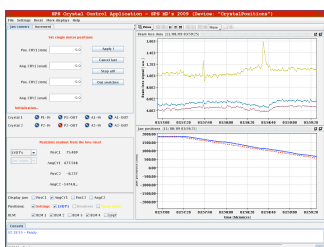
19 03:30 Reference TAL position: 64.4 mm  
Created by spsop from cwo-ccc-alle

20 03:42 Position scan for crystal 1.  
Created by spsop from cwo-ccc-alle

21 03:53 REtract TAL by -3mm; Move collimator OUT. Start angular scan of CRY1.  
Created by spsop from cwo-ccc-alle

22 03:58 Scan IN - seen various small channeling peaks.  
Created by spsop from cwo-ccc-alle

Scan out with smaller speed.

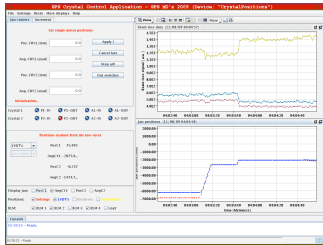


20090811035933.png

Created by spsop from cwo-ccc-alle

23 03:58 Channeling at -2.1 umrad.

24 04:04

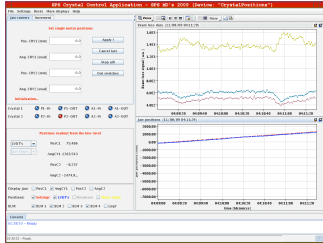


20090811040504.png

Created by spsop from cwo-ccc-alle

Channeling at 40 and 1000 umrad.

25 04:10



20090811041136.png

Created by spsop from cwo-ccc-alle

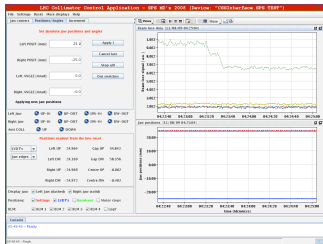
Loss rates too low - move crystal IN by 500 um and repeat scan.  
New crystal position = 75.9mm

26 04:37

Created by spsop from cwo-ccc-a2lc

Stop at 1211 umrad (as measured by the LVDT).

27 04:37



20090811042511.png

Created by spsop from cwo-ccc-a2lc

Moving IN the Medipix (mounted on the RP-H2)

28 04:37

Created by spsop from cwo-ccc-a2lc

Seen channeled beam on the Medipix!!!

29 04:37

Created by spsop from cwo-ccc-a2lc

SPS BLM gain reduced from 16, high gain to 4, high gain, to prevent BLM 521 saturation

30 04:38

Created by spsop from cwo-ccc-a2lc

Move all out, check losses in SPS BLMs.

31 04:42

Created by spsop from cwo-ccc-alle

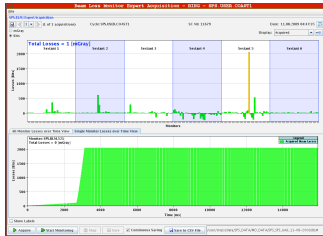
Cut the beam with the LHC collimator.

32 04:45

Created by spsop from cwo-ccc-alle

Signalwith collimator IN

33 04:49

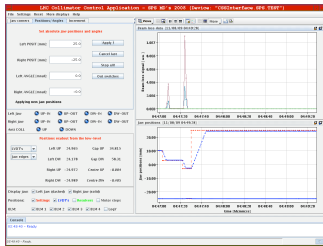


20090811044953.png

Created by spsop from cwo-ccc-a4lc

Beam cut with the LHC collimator.

34 04:49



20090811044935.png

Created by spsop from cwo-ccc-a4lc

New coast.

35 04:51

Created by spsop from cwo-ccc-a4lc

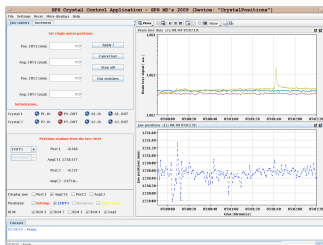
Collimator centring: left = 4.8 mm; right = -3.9 mm.

36 04:59

Created by spsop from cwo-ccc-a4lc

TAL in - reference position = 64.51 mm.

37 05:02



20090811050225.png

Created by spsop from cwo-ccc-a4lc

Scan crystal 2.

38 05:03

Created by spsop from cwo-ccc-a4lc

Reference crystal position = 77.187 mm

39 05:09

Created by spsop from cwo-ccc-a4lc

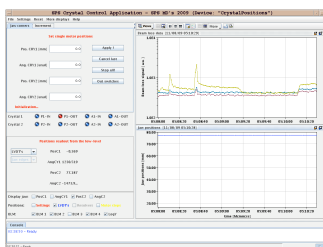
TAL out by -3 mm.

40 05:09

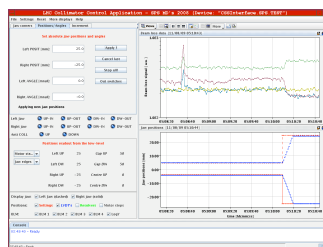
Created by spsop from cwo-ccc-a4lc

Collimator full OUT.

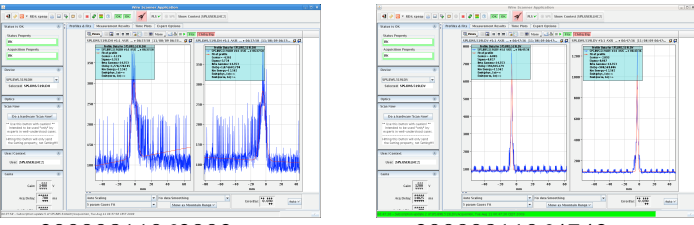
41 05:09



20090811051034.png



20090811051051.png

				Created by spsop from cwo-ccc-alle
42	05:10		SPS BLM amplifier gain from 4 to 16 (still in high gain mode)	Created by spsop from cwo-ccc-a2lc
43	05:10		Angular scan of crystal 2.	Created by spsop from cwo-ccc-alle
44	05:12		SPS BLM amplifier gain back to 4 to avoid saturation	Created by spsop from cwo-ccc-a2lc
45	05:15		Indication of channeling at 1300 urad.	Created by spsop from cwo-ccc-alle
46	05:18		new coat , prepare damper noise setting. Set gain to 0.5	Created by spsop from cwo-ccc-a5lc
47	05:21		Move crystal in by 200um (now at 77.43) to increase loss rate. Repeat angle scan.	Created by spsop from cwo-ccc-alle
48	05:27		Stop at the angle -1230um. Channeling not very clear, though.	Created by spsop from cwo-ccc-alle
49	05:29		Move the Medipix IN.	Created by spsop from cwo-ccc-alle
50	05:33		Very nice picture of the channeled beam on the Medipix!	Created by spsop from cwo-ccc-alle
51	05:35		Channeled + core beam!	Created by spsop from cwo-ccc-alle
52	05:41		Angular scan taking medipix pictures	Created by spsop from cwo-ccc-a2lc
53	05:42		Channeling found, later we will set dumper on	Created by spsop from cwo-ccc-a2lc
54	05:54		calibrating the counters. removing the medipix	Created by spsop from cwo-ccc-a2lc
55	05:56		beam lifetime 16 h 54 m, intensity 8.0E8	Created by spsop from cwo-ccc-a2lc
56	06:02		We are with crystal 2, still in channeling	Created by spsop from cwo-ccc-a2lc
57	06:03		reference positions: linear detector at 46.2 medipix 35.031 crystal 2 at 77.19	Created by spsop from cwo-ccc-a2lc
58	06:05		now medipix out	Created by spsop from cwo-ccc-a2lc
59	06:35		Increasing the intensity on the crystal. Dumper on and gain 0.5. No octupoles.	
				
			Created by spsop from cwo-ccc-a2lc	
60	06:37		Take the lifetime here to calibrate the counters.	Created by spsop from cwo-ccc-a2lc

61	06:38	Changing the BLM gains 'cause saturating Amplification gain -> 1 Integration gain high	<a href="#">Created by spsop from cwo-ccc-a2lc</a>
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**FAULTS**

#	Group	Fault	Element	Description	Begin	End	Duration
1	OP	Setting Up	...	...	2009-08-10 23:00:25	2009-08-11 00:18:13	1:17:48

