

eLogbook 22-September-2009

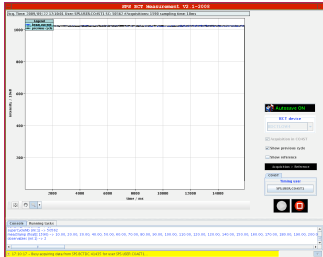
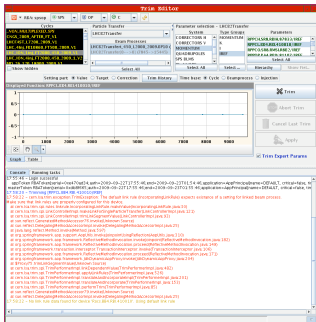


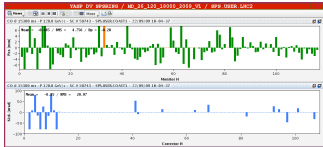
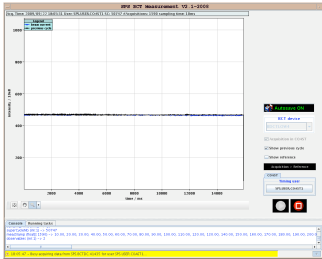
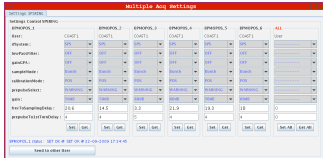
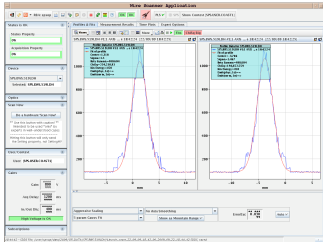
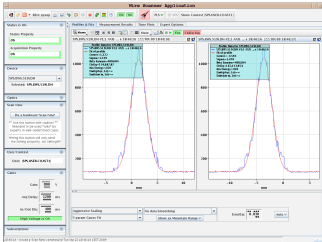
SPS Afternoon

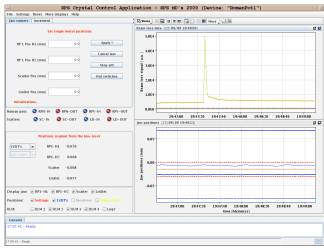
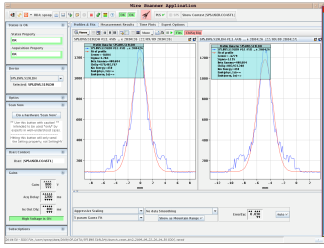
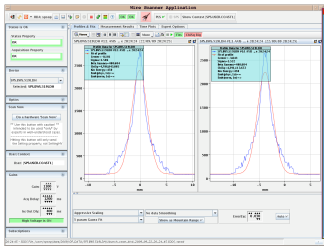
is logged.

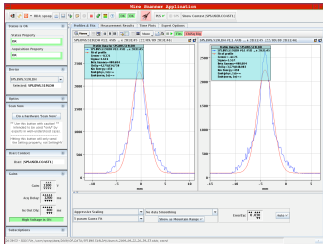
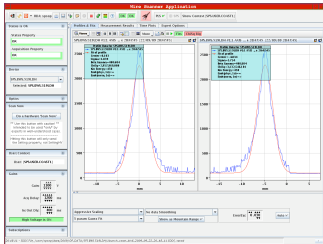
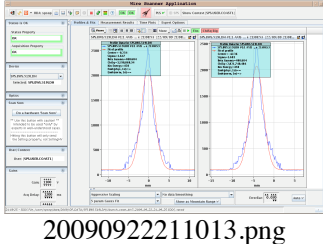
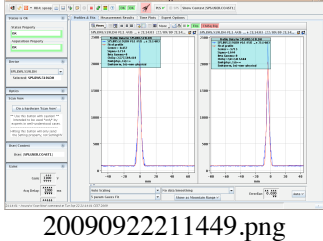
FILTER: Piquets Expert INFO Clear

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#	Time	HC2	Comment
1	15:02		Serge , Louis <i>Created by spsop from cwo-ccc-a5lc</i>
2	15:21		The converter + strength of RBI.4100 ('MBSG') was moved from TT41 to TT40 such that this circuit now also appears also LHCB2Transfer. This is required to ensure settings at 0 A during LHC transfers. <i>Created by spsop from cwo-ccc-a5lc</i>
3	16:00		No beam from Linac due to "eau-demi" fault. In fact a water pump fall down what has an effect on Linac2 and Linac3. <i>Created by spsop from cwo-ccc-a5lc</i>
4	16:22		We copy the timing settings RF MMI from LHC2 to COASTPR1, COAST1, COASTRE1. <i>Created by spsop from cwo-ccc-a7lc</i>
5	17:07		Reboot vln438 on Bruno's request. <i>Created by spsop from cwo-ccc-a7lc</i>
6	17:08		D. Piazza is writing First coast  20090922171036.png <i>Created by spsop from CWO-CCC-AOLF</i>
7	17:44		Local bump created for scraper, in first sextant. <i>Created by spsop from CWO-CCC-AOLF</i>
8	17:45		We rebooted cfv-ba5-blmlhc because there was no signal on the application. <i>Created by spsop from cwo-ccc-a5lc</i>
9	17:45		Trim test of RBI.410010 on LHCB2transfer type. Problem with link rule.  20090922180512.png

			Created by spsop from cwo-ccc-a7lc
10	18:03	<p>Resonant bump around TIDP to see when lose beam: We start to lose at ~ -15 mm on the BPH.11408 => seen both on BCT and BLM. In attachment is the case with maximum (with our scheme) bump in 114. In this case we lose ~ half the beam.</p>  <p>20090922180506.png</p>  <p>20090922180610.png</p>	Created by spsop from cwo-ccc-a4lc
11	18:11	Beam dumped.	Created by spsop from CWO-CCC-A0LF
12	18:13	New coast.	Created by spsop from CWO-CCC-A0LF
13	18:20	Starting background measurements with BCT and BLM (all elements retracted)	Created by spsop from CWO-CCC-A0LF
14	18:21	Lifetime more than 200h.	Created by spsop from CWO-CCC-A0LF
15	18:29	<p>Mopos settings</p>  <p>20090922183000.png</p>	Created by spsop from cwo-ccc-a4lc
16	18:30	Start with beam based alignment. Centering the collimator.	Created by spsop from CWO-CCC-A0LF
17	18:45	<p>BWS519 meas. (also saved file).</p>  <p>20090922184549.png</p>  <p>20090922184725.png</p>	Created by spsop from cwo-ccc-a0lc
18	18:57	LHC BLM restarted.	Created by spsop from CWO-CCC-A0LF
19	19:00	SPS BLM settings: 64x LOW GAIN since ~18:00	Created by spsop from cwo-ccc-a0lc
20	19:14	Closed orbit at collimator: 1.125 mm	Created by spsop from cwo-ccc-a0lc

21	19:26	Reference collimaotrs pototions: left jaw=3.68mm, right jaw=-1.64mm (about 3 sigma) Created by spsop from cwo-ccc-a0lc
22	19:26	Moving the TAL in  20090922194916.png Created by spsop from cwo-ccc-a0lc
23	19:50	TAL aligned at 69 mm (bump switched on but retracted). Then crystal 1 moved in. Created by spsop from cwo-ccc-a0lc
24	19:56	beam killed by crystal movement Created by spsop from cwo-ccc-a0lc
25	19:57	TAL and Crystal out. Created by spsop from cwo-ccc-a0lc
26	20:02	bumpers off kickers off Created by spsop from cwo-ccc-a0lc
27	20:04	New BWS meas. for new coast.  20090922200525.png Created by spsop from cwo-ccc-a0lc
28	20:19	beam purposely killed with the collimator waiting for new coast ~1E10 Created by spsop from cwo-ccc-a0lc
29	20:24	New BWS meas. with new coast with ~ 3E10 p/b.  20090922202516.png Created by spsop from cwo-ccc-a0lc
30	20:26	aligning the collimator

31	20:27	<p>BWS scan at 20:31:45, saved.</p>  <p>20090922204040.png</p>
		Created by spsop from cwo-ccc-a0lc
32	20:37	<p>New coast with lower intensity : $3.5 \cdot 10^{10}$</p>
		Created by spsop from cwo-ccc-a6lc
33	20:48	<p>BWS at 20:47:45.</p>  <p>20090922204848.png</p>
		Created by spsop from cwo-ccc-a0lc
34	20:50	<p>beam killed by collimator</p>
		Created by spsop from cwo-ccc-a0lc
35	20:51	<p>collimator out, waiting for new coast</p>
		Created by spsop from cwo-ccc-a0lc
36	20:52	<p>New coast</p>
		Created by spsop from cwo-ccc-a6lc
37	21:09	<p>BWS meas.</p>  <p>20090922211013.png</p>
		Created by spsop from cwo-ccc-a6lc
38	21:14	<p>BWS measurement, saved.</p>  <p>20090922211449.png</p>

Created by spsop from CWO-CCC-AOLF

39 21:32

Collimator alignment completed. Reference positions:
+3.66 mm
-2.85 mm

The gap is larger and shifted with respect to the previous alignment. This is due to a larger emittance and to removal of a closed orbit bump.

The required gap is recalculated from the measured emittance.

Created by spsop from cwo-ccc-alle

40 21:41

TAL is aligned. Reference position: 66.5mm.

Collimator now at:

+3.60 mm
-2.79 mm

We moved the collimator jaws after TAL alignment to see a beam loss: - 0.06mm for both jaws. Note that TAL alignment was done with 0.5 mm steps. Last two steps resulted in large loss spikes. Last step reverted and then verified with collimator jaws that we were indeed aligned.

Created by spsop from cwo-ccc-alle

41 21:58

Crystal aligned. Reference position:

77.593 mm

BLM4 (BLM8) showed response of crystal touching the beam.

Created by spsop from cwo-ccc-alle

42 22:00

TAL to be retracted from 66.5 mm to 63.2 mm (-3.3 mm which in sigma is 1.8 sig).

Done.

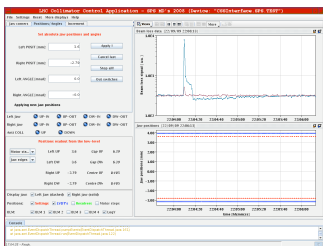


20090922220328.png

Created by spsop from cwo-ccc-alle

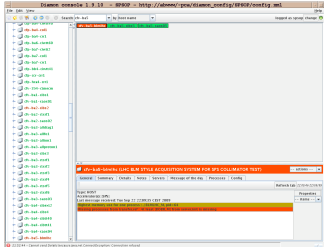
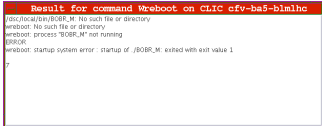
43 22:05

Cerenkov moved in too far (step size 2mm). retracted.



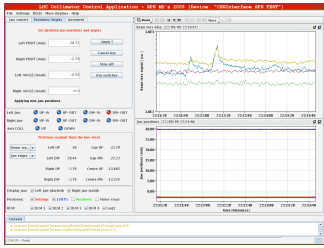
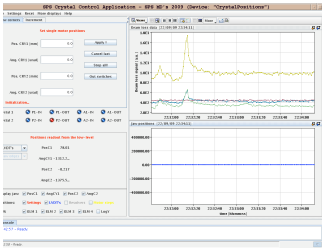
20090922220619.png

Created by spsop from cwo-ccc-alle

44	22:10	<p>Still the cfv-ba5-blmlhc down. Impossible to restart the BOBR_M server. Rebooting.</p>   <p>Restart error.png</p> <p>cfv-ba5-blmlhc.png</p>	Created by spsop from cwo-ccc-a5lc
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45	22:20	Angular scan with Crystal 1 about -1200 mrad.	Created by spsop from cwo-ccc-a0lc
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46	22:24	Lifetime 8h50min	Created by spsop from cwo-ccc-a0lc
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47	22:33	<p>The crystal is moved 400 um in - in the attached plot is possible to see the 2 last steps of 100 um each. The crystal is probably 200 um (0.12 sigma) closer than the collimator and the TAL.</p>   <p>20090922223354.png</p> <p>20090922223418.png</p>	Created by spsop from cwo-ccc-alle
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48	22:54	the collimator jaw LEFT is moved out	Created by spsop from cwo-ccc-alle
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49	22:54	angular scan - the channeling peak is not too clear - we stop at -1787 urad	Created by spsop from cwo-ccc-alle
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50	22:56	beam lifetime 7h 24m	Created by spsop from cwo-ccc-a0lc
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51	22:56	<p>doing a first collimator scan - 25 um /sec - 560 steps the channeling peak is not clear (maybe we are not i channeling position?) Next step we put the medipix in to be sure we are in channeling position.</p> <p>Created by spsop from cwo-ccc-alle</p>	
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FAULTS

#	Group	Fault	Element	Description	Begin	End	Duration
NO FAULT							

