

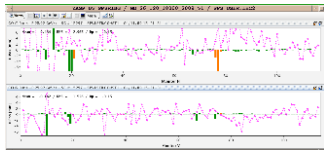
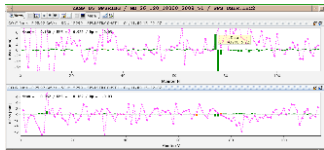
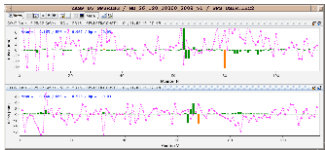
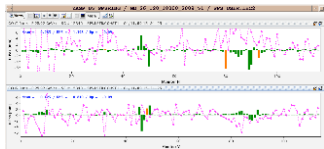
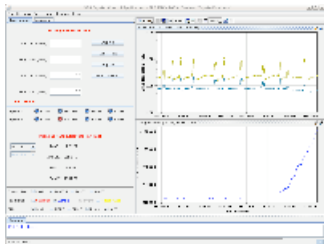
eLogbook 04 - November 2009

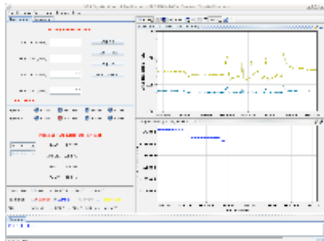
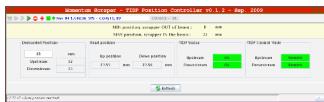
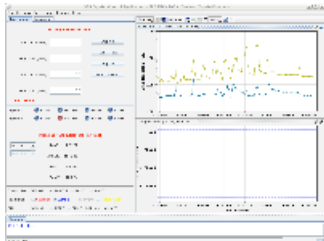


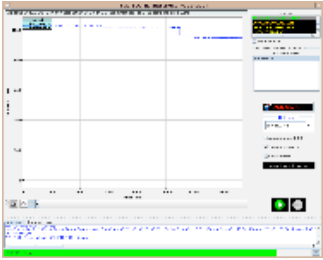
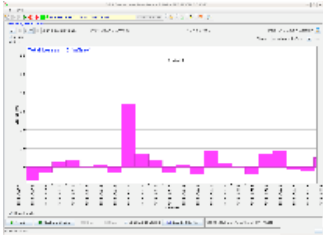
SPS Afternoon


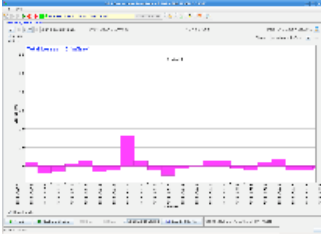
is logged.

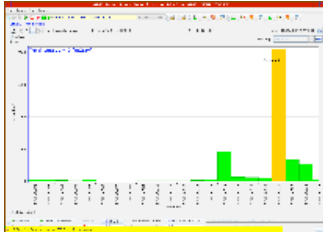
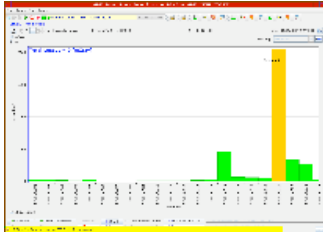
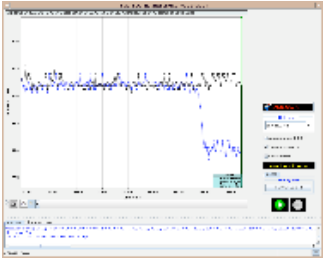
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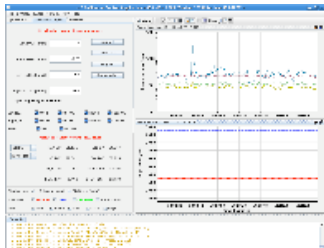
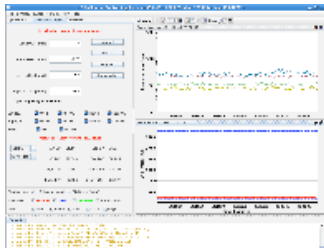
#	Time	LHC 1	Comment
1	15:00		Serge, Markus Created by spsop from cwo-ccc-a6lc
2	15:09		moving TIDP from 33mm to 29mm Created by spsop from cwo-ccc-a6lc
3	15:11		TIDP to 20mm Created by spsop from cwo-ccc-a6lc
4	15:17		Switched off special magnets (5183, 51752) in sextant 5. Created by spsop from cwo-ccc-a6lc
5	15:21		<p>We observe that the orbit acquisition shows differences from time to time but not always at the same locations. The difference signals are always visible in both planes simultaneously. We don't believe that the orbit changes are real. Maybe the pickups see particle showers.</p> <div style="display: flex; justify-content: space-around;">    </div> <div style="display: flex; justify-content: center; margin-top: 20px;">  </div> <p style="text-align: center;">CO difference.png CO difference.png CO.png</p> <p style="text-align: center;">CO.png</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a6lc</p>
6	16:23		<p>Measurement is very noisy due to the spikes.</p> <div style="text-align: center;">  </div> <p style="text-align: center;">20091104162311.png</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a6lc</p>

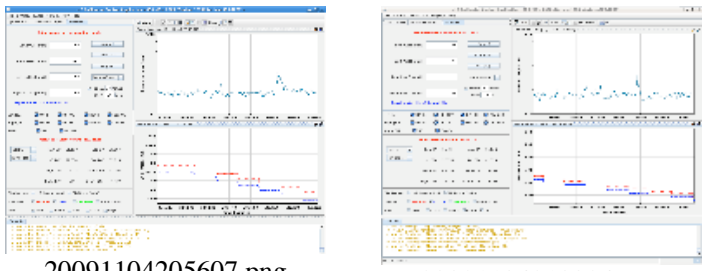
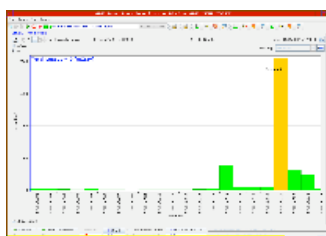
7	16:47	 <p>20091104164729.png</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a11c</p>
8	17:04	<p>reboot of BMU10S (no CO data)</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a61c</p>
9	17:10	<p>We cut the channeled beam with the collimator: left: 10 mm right: -10 mm</p> <p>Crystal 77.23 mm angle: -1841 mrad</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a11c</p>
10	17:23	<p>Roman Pot 1 Edge is between -6.35 and -6.4</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a21c</p>
11	17:24	<p>Closing CNGS:</p> <ul style="list-style-type: none"> - Shielding in Beam mode. - Shutter in Beam mode. - Chain 2 and 6 in no access mode. - Remove interlock on monitor RP. - Ventilation in no access mode. <p style="text-align: right;">Created by spsop from cwo-ccc-a71c</p>
12	17:36	<p>reboot of BMU10S (no CO data)</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a61c</p>
13	17:37	<p>moved TIDP to 33mm</p>  <p>TIDP.png</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a61c</p>
14	17:38	<p>spike behaviour re-appeared at about 17.30</p>  <p>20091104173832.png</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a11c</p>
15	17:44	<p>additional bump of -2mm on BPH 11408</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a61c</p>
		<p>additional bump of -1mm on BPH11408; measured position is -23.5mm</p>



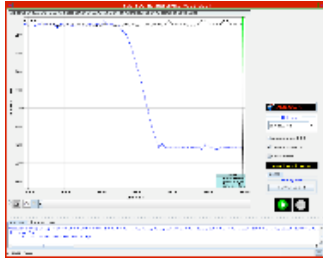
16	17:45	visible loss on BCT signal Created by spsop from cwo-ccc-a6lc
17	17:47	additional bump of -1mm on BPH11408; measured position is -24.5mm visible loss on BCT signal   Losses due to the bump are seen on the BLM.115.png Created by spsop from cwo-ccc-a6lc
18	18:07	additional bump of -0.2mm on BPH11408 Created by spsop from cwo-ccc-a6lc
19	18:08	additional bump of -0.1mm on BPH11408 Created by spsop from cwo-ccc-a6lc
20	18:09	additional bump of -0.1mm on BPH11408 Created by spsop from cwo-ccc-a6lc
21	18:09	additional bump of -0.1mm on BPH11408 Created by spsop from cwo-ccc-a6lc
22	18:10	additional bump of -0.1mm on BPH11408 Created by spsop from cwo-ccc-a6lc
23	18:11	additional bump of -0.1mm on BPH11408 Created by spsop from cwo-ccc-a6lc
24	18:11	additional bump of -0.1mm on BPH11408 measured position is -25.5mm Created by spsop from cwo-ccc-a6lc
25	18:14	additional bump of -0.1mm on BPH11408 Created by spsop from cwo-ccc-a6lc
26	18:15	additional bump of -0.1mm on BPH11408 Created by spsop from cwo-ccc-a6lc
27	18:16	additional bump of -0.1mm on BPH11408 Created by spsop from cwo-ccc-a6lc
28	18:17	additional bump of -0.1mm on BPH11408 Created by spsop from cwo-ccc-a6lc
29	18:20	without performing any more bump we observe a constant loss of $\sim 2E08$ between 2 supercycles Created by spsop from cwo-ccc-a6lc
30	18:21	additional bump of -0.1mm on BPH11408 Created by spsop from cwo-ccc-a6lc
		additional bump of -0.2mm on BPH11408 observed a clear loss on the BCT signal ! There are two types of losses: 1) constant loss from cycle to cycle of about some $E08$ 2) loss produced by the 3C-bump at 11408 of $\sim 1E09$ (see screenshot) acquired position is -26.5mm

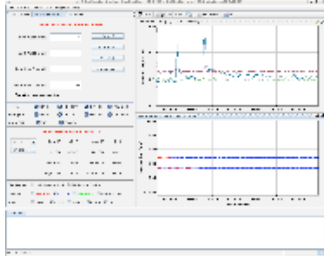
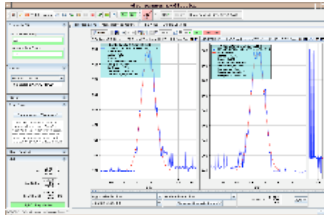
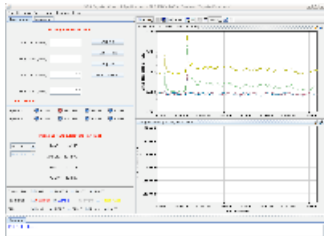
31	18:22	 <p>BCT after -0.2mm bump @ BPH11408.png</p>  <p>Losses seen in BLM.115 with a bump increase of -0.2 mm.png</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a6lc</p>
32	18:28	We retract the colimator (before right jaw at -2.9mm) Created by spsop from cwo-ccc-alle
33	18:30	collimator is retracted now; TIDP is primary we will reduce the BPH114 bump step by step (+0.2mm step size) position @ BPH114: -26.8mm Created by spsop from cwo-ccc-a6lc
34	18:31	bump of +0.2mm on BPH11408 Created by spsop from cwo-ccc-a6lc
35	18:32	bump of +0.2mm on BPH11408 Created by spsop from cwo-ccc-a6lc
36	18:35	bump of +0.2mm on BPH11408 Created by spsop from cwo-ccc-a6lc
37	18:36	bump of +0.2mm on BPH11408 Created by spsop from cwo-ccc-a6lc
38	18:38	We now retract the TIDP instead of using the bump => 32 mm instead of 33 mm. Created by spsop from cwo-ccc-a6lc
39	18:39	TIDP now moved to 31 mm. No losses seen in both BCT and SPS BLM. Created by spsop from cwo-ccc-a6lc
40	18:40	TIDP now moved to 30 mm. No losses seen in both BCT and SPS BLM. Created by spsop from cwo-ccc-a6lc
41	18:41	TIDP now moved to 25 mm. No losses seen in both BCT and SPS BLM. Created by spsop from cwo-ccc-a6lc
42	18:43	TIDP now moved to 20 mm. No losses seen in both BCT and SPS BLM. Created by spsop from cwo-ccc-a6lc
43	18:44	TIDP now moved back to 33 mm. No losses seen in both BCT and SPS BLM. Created by spsop from cwo-ccc-a6lc
44	18:47	bump of -0.2mm on BPH11408 Created by spsop from cwo-ccc-a6lc
45	18:49	bump of -0.2mm on BPH11408 Created by spsop from cwo-ccc-a6lc
46	18:49	bump of -0.2mm on BPH11408 Created by spsop from cwo-ccc-a6lc
47	18:50	bump of -0.2mm on BPH11408 Created by spsop from cwo-ccc-a6lc
48	18:51	bump of -0.2mm on BPH11408. => We start to be primary, seeing this on the SPS BLM.115.

			Created by spsop from cwo-ccc-a6lc
49	18:51	bump of -0.2mm on BPH11408 => We are clearly primary, seeing this on the SPS BLM.115.	Created by spsop from cwo-ccc-a6lc
50	18:52	bump of -0.2mm on BPH11408.	Created by spsop from cwo-ccc-a6lc
51	18:53	bump of -0.2mm on BPH11408.	Created by spsop from cwo-ccc-a6lc
52	18:56	bump of -0.2mm on BPH11408.	Created by spsop from cwo-ccc-a6lc
53	18:57	bump of +0.2mm on BPH11408, i.e. we retract now => -27.9 on the BPH114.	Created by spsop from cwo-ccc-a6lc
54	18:59	bump of +0.2mm on BPH11408.	Created by spsop from cwo-ccc-a6lc
55	19:00	bump of +0.2mm on BPH11408.	Created by spsop from cwo-ccc-a6lc
56	19:02	bump of +0.2mm on BPH11408.	Created by spsop from cwo-ccc-a6lc
57	19:02	bump of +0.2mm on BPH11408. We are not primary anymore.	Created by spsop from cwo-ccc-a6lc
58	19:03	bump of +0.2mm on BPH11408.	Created by spsop from cwo-ccc-a6lc
59	19:04	bump of +0.2mm on BPH11408.	Created by spsop from cwo-ccc-a6lc
60	19:07	bump of +0.2mm on BPH11408.	Created by spsop from cwo-ccc-a6lc
61	19:13	We change the Integration gain of the BLM from "Low gain" to "High gain" and the Amplification gain from 64 to 16. Masked SIS interlock "BLRING_GAIN"	Created by spsop from cwo-ccc-a6lc
62	19:27	bump of -1.0mm on BPH11408, i.e. we are primary now => -27.4 on the BPH114. We see a clear loss signal on the BCT and the BLM monitor 115 <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>BCT.png</p> </div> <div style="text-align: center;">  <p>BLM.png</p> </div> <div style="text-align: center;">  <p>BCT - zoom on loss.png</p> </div> </div>	Created by spsop from cwo-ccc-a6lc
63	19:31	bump of +0.1mm on BPH11408; we slowly reduce the bump again	Created by spsop from cwo-ccc-a6lc
64	19:33	bump of +0.1mm on BPH11408	Created by spsop from cwo-ccc-a6lc
65	19:34	bump of +0.1mm on BPH11408	Created by spsop from cwo-ccc-a6lc
66	19:35	bump of +0.1mm on BPH11408	Created by spsop from cwo-ccc-a6lc
67	19:36	bump of +0.1mm on BPH11408	Created by spsop from cwo-ccc-a6lc
68	19:38	bump of +0.1mm on BPH11408	Created by spsop from cwo-ccc-a6lc
69	19:39	bump of +0.1mm on BPH11408	Created by spsop from cwo-ccc-a6lc

			Created by spsop from cwo-ccc-a61c
70	19:40	bump of +0.1mm on BPH11408	Created by spsop from cwo-ccc-a61c
71	19:41	bump of +0.1mm on BPH11408	Created by spsop from cwo-ccc-a61c
72	19:41	bump of +0.1mm on BPH11408	Created by spsop from cwo-ccc-a61c
73	19:42	bump of +0.1mm on BPH11408	Created by spsop from cwo-ccc-a61c
74	19:43	bump of +0.1mm on BPH11408	Created by spsop from cwo-ccc-a61c
75	19:46	bump of +0.2mm on BPH11408	Created by spsop from cwo-ccc-a61c
76	19:47	bump of +0.2mm on BPH11408	Created by spsop from cwo-ccc-a61c
77	19:48	bump of +0.2mm on BPH11408	Created by spsop from cwo-ccc-a61c
78	19:49	bump of +0.2mm on BPH11408	Created by spsop from cwo-ccc-a61c
79	19:50	bump of +0.2mm on BPH11408	Created by spsop from cwo-ccc-a61c
80	19:52	TIDP set to 32mm	Created by spsop from cwo-ccc-a61c
81	19:53	TIDP set to 31mm	Created by spsop from cwo-ccc-a61c
82	19:57	Collimator realignment for a scan	Created by spsop from cwo-ccc-a21c
83	20:10	erratic behavior start again when the collimator is in coll position -2.65 left jaw open  20091104201038.png	Created by spsop from cwo-ccc-a11c
84	20:20	collimator position at the beginning of the collimator scan = -2.55 mm stable losses  20091104202117.png	

			Created by spsop from cwo-ccc-a1lc
85	20:25	Start collimator scan: 5 times 50 microns 60 seconds.	Created by spsop from cwo-ccc-a2lc
86	20:31	End first 5 steps, restart with the same loop.	Created by spsop from cwo-ccc-a2lc
87	20:38	Again.	Created by spsop from cwo-ccc-a2lc
88	20:48	Collimator at -3.55mm now 10 steps of 50 microns in 30 seconds	Created by spsop from cwo-ccc-a2lc
89	20:53	Collimator at -4.05 now 20 steps of 100 microns in 10 seconds.	Created by spsop from cwo-ccc-a2lc
90	20:55	<p>Strange peak when collimator at -4.45mm and -5.75mm</p>  <p>20091104205607.png 20091104210034.png</p>	Created by spsop from cwo-ccc-a1lc
91	21:04	New collimator scan again 20 steps of 100 um in 20 seconds (right jaw moving out)	Created by spsop from cwo-ccc-a1lc
92	21:08	New collimator scan again 20 steps of 200 um in 20 seconds (right jaw moving out)	Created by spsop from cwo-ccc-a1lc
93	21:15	New collimator scan again 20 steps of 400 um in 20 seconds (right jaw moving out)	Created by spsop from cwo-ccc-a1lc
94	21:22	Repeat loss maps with TIDP as absorber.	Created by spsop from cwo-ccc-a7lc
95	21:24	<p>before moving TIDP in bump position at BPH 114 is -23.3mm</p>  <p>Reference BLM - TIDP out.png</p>	Created by spsop from cwo-ccc-a6lc
		TIDP @ 33mm	

96	21:25	<p>TIDP @ 33mm.png</p>  <p>20091104212843.png</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a6lc</p>
97	21:28	<p>added -2.2mm to bump @ BPH11408 in one trim and lost ~25% of beam</p>  <p>BCT.png</p>  <p>BCT - zoom on loss.png</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a6lc</p>
98	21:37	<p>TIDP @ 30mm</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a6lc</p>
99	21:38	<p>TIDP back @ 33mm; no losses observed</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a6lc</p>
100	21:48	<p>Go to amorphous. Goniometer to -2290</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a2lc</p>
101	21:51	<p>Collimator moved to reference position for the scan. Jaw at -2.8</p> <p>Scan...</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a2lc</p>
102	21:54	<p>Collimator scan manual up to -3.3, after we do 20 steps of 20 seconds and 100 microns.</p> <p>Move again faster up to -18mm</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a7lc</p>
103	21:55	<p>+0.1mm on bump at 114</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a7lc</p>
104	22:07	<p>TIDP set to 32.9mm acquired position is: 32.7/32.5</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a6lc</p>
105	22:14	<p>TIDP @ 30mm - it has been retracted step by step but no losses have been observed</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a6lc</p>
		<p>Collimator reference positions for alignment: 3.4 and -2.7 with precision 100 microns</p>

106	22:59	 <p>20091104222003.png</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a2lc</p>
107	22:59	<p>crystal 2 aligned @ 77.77 mm</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a2lc</p>
108	22:59	<p>angular scan for crystal 2 the medipix is still in.</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a2lc</p>
109	22:59	<p>wirescanner measurement with 519LDH</p>  <p>wire scan - 519LDH.png</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a6lc</p>
110	22:59	<p>Crystal 2 channeling around -1050.</p> <p style="text-align: right;">Created by spsop from cwo-ccc-a2lc</p>
111	22:59	<p>Collimator IN as primary, at -2.6 mm. Noisy BLM signals...</p>  <p>20091104223612.png</p> <p style="text-align: right;">Created by spsop from cwo-ccc-alle</p>
112	22:59	<p>Collimator out (22:37) -> start re-population, then a spike 1 min late without movements.</p> <p style="text-align: right;">Created by spsop from cwo-ccc-alle</p>

FAULTS

#	Group	Fault	Element	Description	Begin	End	Duration
NO FAULT							

