





Run	Tgt	Brho1 Set	Brho2 Set	D1 (mT)	D2 (mT)	Brho1 Read	Brho2 Read	F1 slits +/- mm	Att
71									
72									
73									
74									
75									
76									
77	Be(92)	1.7900	1.7520	490.097	498.244	1.764349	1.793678	5	bad
78	Be(92)	1.7900	1.7900	498.097	498.2	1.793149	1.79352	5	120
79	Ta(166)	1.7900	1.7900	498.096	498.232	1.793146	1.793635	5	120
80	Ta(166)	1.7900	1.7900	498.096	498.232	1.793146	1.793635	5	120
81	Ta(166)	1.8100	1.8100	503.655	503.997	1.813158	1.814389	5	100
82	Be(92)	1.8100	1.8100	503.655	504.029	1.813158	1.814504	5	60
83	Be(92)	1.8300	1.8300	509.207	509.477	1.833145	1.834117	5	60
84	Ta(166)	1.8300	1.8300	509.207	509.342	1.833145	1.833631	5	120
85	Ta(166)	1.8500	1.8500	514.742	515.119	1.853071	1.854428	5	120
86	Ta(166)	1.8500	1.8500	514.742	514.99	1.853071	1.853964	5	120
87	Be(92)	1.8500	1.8500	514.743	514.965	1.853075	1.853874	5	
88	Be(92)	1.8700	1.8700	520.242	520.51	1.872871	1.873836	5	
89	Ta(166)	1.8700	1.8700	520.241	520.504	1.872868	1.873814	5	
90	Ta(166)	1.8900	1.8900	525.769	526.504	1.892768	1.895414	5	
91	Be(92)	1.8900	1.8900	525.766	526.021	1.892758	1.893676	5	360
92						0	0		
93	Be(92)	1.9100	1.9100	531.298	531.797	1.912673	1.914469	5	
94						0	0		
95	Be(92)	1.9100	1.9100	531.298	531.797	1.912673	1.914469	5	
96	Be(92)	1.9100	1.9100	531.298	531.797	1.912673	1.914469	5	
97	Ta(166)	1.9100	1.9100	531.297	531.718	1.912669	1.914185	5	
98	Ta(166)	1.9300	1.9300	536.798	537.193	1.932473	1.933895	5	
99	Ta(166)	1.9300	1.9300	536.798	537.193	1.932473	1.933895	5	
100	Be(92)	1.9300	1.9300	536.798	537.193	1.932473	1.933895	5	
101	Be(92)	1.9500	1.9500	542.338	542.58	1.952417	1.953288	5	
102	Ta(166)	1.9500	1.9500	542.337	542.6	1.952413	1.95336	5	
103	Ta(166)	1.9700	1.9700	547.84	548.2	1.972224	1.97352	5	
104	Be(92)	1.9700	1.9700	547.842	548.2	1.972231	1.97352	5	
105	Be(92)	1.9900	1.9900	553.365	553.672	1.992114	1.993219	5	

Run	Tgt	Brho1 Set	Brho2 Set	D1 (mT)	D2 (mT)	Brho1 Read	Brho2 Read	F1 slits +/- mm	Att
106	Ta(166)	1.9900	1.9900	553.37	553.52	1.992132	1.992672	5	
107	Ta(166)	2.0100	2.0100	558.898	559.211	2.012033	2.01316	5	
108	Be(92)	2.0100	2.0100	558.89	559.14	2.012004	2.012904	5	
109	Be(92)	2.0300	2.0300	564.404	564.41	2.031854	2.031876	5	
110	Be(92)	2.0300	2.0300	564.405	564.701	2.031858	2.032924	5	
111	Ta(166)	2.0300	2.0300	564.406	564.658	2.031862	2.032769	5	
112	Ta(166)	2.0300	2.0300	564.407	564.7	2.031865	2.03292	5	
113	Ta(166)	2.0300	2.0300	564.408	564.797	2.031869	2.033269	10	
114	Ta(166)	2.0300	2.0300	564.408	564.292	2.031869	2.031451	2	
115	Ta(166)	2.0500	2.0500	569.89	580.48	2.051604	2.089728	5	
116	Be(92)	2.0500	2.0500	569.89	520.102	2.051604	1.872367	5	
117	Be(92)	2.0300	2.0300	564.5	564.8	2.0322	2.03328	5	
118	Ta(166)	2.0300	2.0300	564.46	564.81	2.032056	2.033316	5	100
119	Ta(166)	2.0700	2.0700	575.477	575.8	2.071717	2.07288	5	100
120	Be(92)	2.0700	2.0700	575.46	575.81	2.071656	2.072916	5	100
121	Be(92)	2.0900	2.0900	580.975	581.35	2.09151	2.09286	5	100
122	Ta(166)	2.0900	2.0900	580.971	581.35	2.091496	2.09286	5	100
123	Ta(166)	2.1100	2.1100	586.498	586.763	2.111393	2.112347	5	100
124	Ta(166)	2.1100	2.1100	586.498	586.765	2.111393	2.112354	5	100
125	Be(92)	2.1100	2.1100	586.497	586.771	2.111389	2.112376	5	100
126	Be(92)	2.1300	2.1300	592.033	592.241	2.131319	2.132068	5	
127	Ta(166)	2.1300	2.1300	592.028	592.237	2.131301	2.132053	5	
128	Ta(166)	2.1500	2.1500	597.557	597.722	2.151205	2.151799	5	
129	Be(92)	2.1500	2.1500	597.55	597.719	2.15118	2.151788	5	
130	Be(92)	2.1500	2.1500	597.55	597.719	2.15118	2.151788	5	
131	Be(92)	2.1500	2.1500	597.55	597.719	2.15118	2.151788	5	
132	Be(92)	2.1700	2.1700	603.062	603.336	2.171023	2.17201	5	
133	Ta(166)	2.1700	2.1700	602.988	603.296	2.170757	2.171866	5	
134	Ta(166)	2.1900	2.1900	608.59	608.875	2.190924	2.19195	5	
135	Be(92)	2.1900	2.1900	608.568	608.84	2.190845	2.191824	5	
136	Be(92)	2.1900	2.1900	608.619	608.857	2.191028	2.191885	5	
137	Be(92)	2.2100	2.2100	614.128	614.485	2.210861	2.212146	5	
138	Ta(166)	2.2100	2.2100	614.14	614.57	2.210904	2.212452	5	
139	Ta(166)	2.2300	2.2300	619.7	619.8	2.23092	2.23128	5	

Run	Tgt	Brho1 Set	Brho2 Set	D1 (mT)	D2 (mT)	Brho1 Read	Brho2 Read	F1 slits +/- mm	Att
140	Be(92)	2.2300	2.2300	619.61	619.83	2.230596	2.231388	5	
141	Be(92)	2.2500	2.2500	625.188	625.402	2.250677	2.251447	5	
142	Ta(166)	2.2500	2.2500	625.184	625.469	2.250662	2.251688	5	
143	Ta(166)	2.2700	2.2700	630.695	630.82	2.270502	2.270952	5	
144	Be(92)	2.2700	2.2700	630.56	630.85	2.270016	2.27106	5	
145									
146									
147									
148									
149									
150									
151									
152	Beam intensity calibrat								
153									
154									
155									
156									
157									
158									
159									
160									
161									
162									
163									
164									
165									
166									
167									
168									
169									
170	Beam monitor calibration with								
171									
172									
173	Ta(166)	2.2900	2.2900	636.46	636.95	2.291256	2.29302	5	
174	Be(92)	2.2900	2.2900	636.634	636.093	2.291882	2.289935	5	

Run	Tgt	Brho1 Set	Brho2 Set	D1 (mT)	D2 (mT)	Brho1 Read	Brho2 Read	F1 slits +/- mm	Att
175	Be(92)	2.3100	2.3100	642.02	642.49	2.311272	2.312964	5	
176	Ta(166)	2.3100	2.3100	642.008	642.489	2.311229	2.31296	5	
177	Ta(166)	2.3300	2.3300	647.552	647.99	2.331187	2.332764	5	
178	Be(92)	2.3300	2.3300	647.552	647.99	2.331187	2.332764	5	
179	Be(92)	2.3500	2.3500	653.069	653.5	2.351048	2.3526	5	
180	Ta(166)	2.3500	2.3500	653.07	653.424	2.351052	2.352326	5	
181	Ta(166)	2.3500	2.3500	653.07	653.424	2.351052	2.352326	3	
182	Ta(166)	2.8000	2.8000	777.715	778.564	2.799774	2.80283	3	
183	Ta(166)	2.9900	2.9900	bad	bad	#VALUE!	#VALUE!	3	
184	Ta(166)	2.3700	2.3700	659.22	659.5	2.373192	2.3742	3	
185	Be(92)	2.3700	2.3700	659.09	659.29	2.372724	2.373444	3	
186	Be(92)	2.3900	2.3900	664.616	665.03	2.392618	2.394108	3	
187	Be(92)	2.4100	2.4100	670.125	670.55	2.41245	2.41398	3	
188	Be(92)	2.4300	2.4300	675.029	674.121	2.430104	2.426836	3	
189	Be(92)	2.4500	2.4500	681.092	681.545	2.451931	2.453562	3	
190	Ta(166)	2.4500	2.4500	681.092	681.545	2.451931	2.453562	3	
191	Ta(166)	2.4800	2.4800	689.35	689.815	2.48166	2.483334	3	
192	Ta(166)	2.6700	2.6700	741.832	742.339	2.670595	2.67242	3	
193	Be(92)	2.6700	2.6700	741.834	742.338	2.670602	2.672417	3	
194	Be(92)	2.7000	2.7000	749.965	750.467	2.699874	2.701681	3	
195	Ta(166)	2.7000	2.7000	750.035	750.557	2.700126	2.702005	3	
196	Ta(166)	2.7000	2.7000	750.035	750.557	2.700126	2.702005	3	
197	Ta(166)	2.7500	2.7500	763.761	764.272	2.74954	2.751379	3	
198	Be(92)	2.7500	2.7500	763.791	764.295	2.749648	2.751462	3	
199	Be(92)	2.3300	2.3300	648.074	648.503	2.333066	2.334611	3	
200	Be(92)	2.2300	2.2300	620.446	620.826	2.233606	2.234974	2	
201	Be(92)	2.1900	2.1900	609.411	609.786	2.19388	2.19523	2	
202	Be(92)	2.1500	2.1500	598.39	598.825	2.154204	2.15577	2	
203						0	0		
204	Be(115)	2.0974	2.0974	582.572	582.611	2.097259	2.0974	3	
205						0	0		
206	Be(115)	2.0974	2.0974	582.572	582.614	2.097259	2.09741	3	1800000
207	Ta(166)	2.0974	2.0974	582.573	582.611	2.097263	2.0974	3	4000
208						0	0		
209	Be(92)	2.9000	2.9000	805.495	805.995	2.899782	2.901582	3	







Comment	From	To
doesn't exist	23:50:53	23:52:56
for SSD calibration (unstripped primary beam)	23:56:20	00:02:56
36+ and 35+ charge states	06:39:25	06:45:33
35+ and 34+ charge states	06:51:55	07:03:26
34+ and 33+ charge states	07:13:46	07:18:57
33+ and 32+ charge states	07:22:25	07:28:45
32+ and 31+ charge states	07:37:16	07:45:02
31+ and 30+ charge states	07:49:36	07:55:23
31+ and 30+ charge states	07:58:31	08:01:27
thickness measurement	08:18:17	08:20:06
	08:25:13	08:26:12
36+ and 35+ charge states	08:38:07	08:41:55
36+ charge state	08:50:52	08:53:14
36+ and 35+ charge states	08:57:47	09:01:09
35+ and 34+ charge states	09:06:18	09:08:07
34+ and 33+ charge states	09:13:30	09:18:26
F1 PPAC thickness measurement	09:56:00	09:59:19
trigger changed to F2PPAC	10:13:25	10:15:25
wdg 60mg IN	10:24:31	10:26:48
wdg 116mg IN	10:34:29	10:37:56
36+ charge state, with wdg 60mg	11:23:45	11:26:50
35+ charge state, with wdg 60mg	11:31:14	11:33:00
bad run	11:36:06	11:39:24
33+ charge state, with wdg 60mg	11:42:05	11:44:28
34+ charge state, with wdg 60mg	11:46:27	11:48:52
36+ --> 36+, no wdg just F1PPAC	11:55:38	11:58:49
36+ --> 35+, no wdg just F1PPAC	12:01:19	12:04:43
36+ --> 34+, no wdg just F1PPAC	12:06:27	12:18:26
F1PPAC is out	13:52:06	14:40:49
	14:51:30	16:15:40
dE voltage changed to 105V	17:37:53	17:50:18
dE voltage changed back to 95V	18:20:33	18:25:20
BaF highest beam intensity	18:27:46	18:29:14
	19:28:20	19:29:20
	19:34:40	19:37:35

Comment	From	To
	19:38:26	19:40:11
	19:43:03	19:48:48
	19:50:43	19:57:58
	20:02:44	20:03:57
	20:06:33	20:07:27
	20:09:19	20:09:46
	20:11:25	20:11:42
	20:15:15	20:15:27
	20:18:52	20:20:28
	20:22:16	20:23:26
	20:24:30	20:26:51
	20:29:03	20:31:40
	20:32:56	20:35:16
	20:37:16	20:41:09
ations	20:43:21	20:46:40
	20:47:55	20:52:46
	20:54:40	21:04:40
	21:09:22	21:16:22
	21:23:08	21:27:19
	21:28:26	21:32:10
	21:34:27	21:36:01
	21:38:03	21:40:16
	21:42:17	21:42:36
	21:59:05	21:59:53
	22:01:19	22:08:00
	22:09:16	22:13:09
	22:14:21	22:16:58
	22:18:04	22:19:15
	22:21:11	22:23:17
	22:24:20	22:25:46
	22:29:11	22:30:14
	22:31:57	22:33:01
	22:36:36	22:36:54
	22:56:05	22:57:37
	23:14:37	23:16:24

Comment	From	To
	23:17:32	23:18:43
	23:19:55	23:21:06
	23:23:03	23:23:51
	23:24:30	23:25:05
	23:26:02	23:26:36
	23:27:32	23:27:53
first Brho scanning point	02:18:02	02:48:02
same but with correct Brho in F2-F3	02:56:01	03:22:54
	03:28:41	03:38:25
same as 79	03:50:51	04:05:06
	04:42:42	05:06:08
	05:17:09	05:43:32
	05:51:37	06:16:08
	06:23:07	06:46:36
	07:32:13	07:40:53
same as 85	07:46:16	08:11:45
	08:20:54	08:48:30
	09:13:31	09:44:47
	09:51:06	10:09:37
	11:01:52	11:32:22
	11:59:41	12:29:54
doesn't exist	12:53:15	13:05:02
	13:14:32	13:14:39
doesn't exist	13:16:39	13:20:37
	13:32:35	13:51:10
	14:00:14	14:29:10
	14:37:04	14:52:58
	15:02:45	15:19:35
	15:30:30	15:59:18
	16:24:59	16:55:11
	17:00:53	17:30:33
	17:39:14	18:12:05
	18:18:16	18:48:10
	18:55:38	19:22:32
	19:28:56	20:02:46

Comment	From	To
	20:06:04	20:33:36
	20:42:55	21:12:11
	21:21:02	21:42:08
	21:57:20	22:03:45
problem with preAmp dE, changed problem started in run 106	22:08:00	22:30:03
	22:39:42	23:06:16
	23:12:59	23:38:24
F1 slit calibration	23:43:22	23:54:23
F1 slit calibration	00:07:25	00:36:02
	00:41:48	01:10:07
not sure about F1 slit opening	01:24:16	01:54:02
	01:58:38	02:15:45
same as 117 - hysteresis check	02:23:28	02:52:58
	02:58:14	03:28:20
	03:34:15	04:03:53
	04:11:49	04:40:55
	05:02:23	05:08:52
	05:13:41	05:38:02
no record about F1 slit opening	05:47:09	06:15:38
	06:21:59	06:42:28
	06:48:17	07:18:08
	07:28:07	07:57:35
	08:11:40	08:12:29
	08:17:51	08:23:21
	08:28:59	08:54:48
	09:06:40	09:38:44
	09:45:47	10:16:05
	10:23:00	10:58:21
	11:04:33	11:27:31
	11:31:44	11:44:30
	11:51:37	12:21:03
	12:28:26	12:56:54
	13:04:05	13:36:50
	13:43:52	14:12:04

Comment	From	To
	14:20:05	14:50:14
	14:55:25	15:28:34
	15:34:17	16:05:47
	16:12:02	16:39:36
	17:16:11	17:16:40
	17:17:26	17:19:51
	17:20:38	17:22:24
	17:24:26	17:25:36
	17:27:06	17:28:08
	17:29:20	17:31:22
	17:34:03	17:36:42
	17:37:36	17:37:46
	17:38:12	17:40:23
	17:41:02	17:44:08
	17:47:49	17:49:48
	17:51:35	17:54:14
	17:55:51	18:01:23
	18:05:44	18:08:30
	18:13:15	18:15:45
	18:24:45	18:27:34
	18:31:04	18:38:40
	18:41:21	18:47:22
	18:48:04	18:50:12
	18:56:51	18:58:43
	19:09:12	19:24:52
	19:32:45	19:47:45
	20:04:06	20:08:01
	20:15:59	20:18:55
	20:22:12	20:25:23
	20:30:48	20:38:03
	20:41:17	20:42:17
	20:44:41	20:45:29
	21:04:58	21:34:07
	21:42:55	22:07:59
	22:12:12	22:39:02

ions

fragments

Comment	From	To
	22:46:02	23:15:24
	23:19:18	23:49:33
	23:57:07	00:28:43
	00:58:26	01:27:03
	01:34:14	01:50:48
	01:55:19	02:14:23
F1 slit changed to +/- 3mm	02:49:33	03:11:32
	03:17:58	03:28:08
	03:36:12	04:06:30
	04:13:38	04:44:07
	04:47:46	05:22:01
	05:28:49	05:59:38
	06:12:38	06:42:21
	06:46:22	07:17:08
	07:22:21	07:52:17
	08:02:12	08:33:28
	08:40:29	08:46:18
	08:56:47	09:26:54
	09:32:56	10:03:52
	10:09:43	10:13:22
	10:26:08	10:30:13
	10:37:14	10:40:42
	10:52:52	11:22:54
	11:40:12	11:55:40
	12:08:17	12:23:40
	12:31:42	12:41:52
	12:45:16	12:58:41
	16:52:33	16:52:41
doesn't exist	20:05:30	20:15:13
PID calibration run	20:22:15	20:28:01
bad	20:42:37	20:45:14
PID calibration run	20:47:44	20:58:27
PID calibration run	23:48:52	23:48:55
bad	23:56:03	00:04:28
mainly 31+ charge state	00:15:50	00:47:36

Comment	From	To
bad	00:59:12	01:05:08
only light particles	01:34:05	02:34:36
	02:37:36	03:39:12
	04:15:03	05:15:39
thresholds for plastic (F2) are changed (300mV)	05:16:24	05:33:05
thresholds for plastic (F2) are changed (300mV)	05:40:55	06:40:05
thresholds for plastic (F2) are changed (300mV)	06:41:36	07:43:23
thresholds for plastic (F2) are changed (300mV)	08:07:47	08:09:53
thresholds for plastic (F2) are changed (300mV)	08:28:31	09:47:28
thresholds for plastic (F2) are changed (300mV)	09:48:15	10:58:31
thresholds for plastic (F2) are changed (300mV)	11:21:06	11:24:32
thresholds for plastic (F2) are changed (300mV)	11:40:24	11:46:33
thresholds for plastic (F2) are changed (300mV)	11:49:17	12:22:11
thresholds for plastic (F2) are changed (300mV)	12:29:30	12:38:19
bad (changed parameters during run)	12:50:34	13:20:03
	13:28:15	13:33:35
	13:39:30	14:02:06
	14:10:16	14:37:35
	14:57:03	15:27:47
	15:42:07	15:42:57
	15:44:14	15:45:02
	15:56:37	15:57:18
	16:01:15	16:01:40
	16:05:16	16:05:24
	16:05:54	16:06:11
	16:23:26	16:24:13
	16:37:02	16:38:52
	16:41:26	16:44:52
	16:46:58	16:52:47
	16:55:01	17:01:03
	17:10:42	17:15:15
	17:16:55	17:24:37
	17:31:00	17:33:46
	17:35:12	17:41:25
	17:45:00	17:47:15

Comment	From	To
	17:49:30	17:55:43
	18:02:01	18:02:58
	18:05:10	18:06:03
	18:07:19	18:08:08
	18:09:39	18:10:26
	18:11:56	18:12:56
	18:19:05	18:19:47
	18:33:47	18:43:19
	18:46:12	18:54:49
	19:06:35	19:30:33
	19:34:36	19:44:40
PID calibration run	19:49:10	20:01:06
PID calibration run	20:06:29	20:17:24
PID calibration run	20:24:52	20:42:15
PID calibration run	20:49:24	21:20:08
PID calibration run	21:24:58	21:55:31
F3 plastic out	22:06:13	23:01:10
comparison with run193 before the beam tune	23:04:29	00:02:13
comparison with run194 before the beam tune	00:02:48	01:00:43
thresholds for plastic (F2) are changed (300mV)	01:02:29	02:02:20
thresholds for plastic (F2) are changed (300mV)	02:24:09	03:23:39
thresholds for plastic (F2) are changed (300mV)	03:24:35	04:25:22
thresholds for plastic (F2) are changed (300mV)	04:26:08	05:25:41
thresholds for plastic (F2) are changed (300mV)	05:26:22	05:33:11
thresholds for plastic (F2) are changed (300mV)	05:34:13	06:44:13
thresholds for plastic (F2) are changed (300mV)	06:45:00	07:47:33
thresholds for plastic (F2) are changed (300mV)	07:48:00	08:59:02
thresholds for plastic (F2) are changed (300mV)	09:48:20	09:53:40
thresholds for plastic (F2) are changed (300mV)	09:57:32	10:01:07
pedestal run		
pedestal run		