

21 Aug 2019

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~moller/doc/runtemplate_2019_1.pdf

Date	Begin time	End time	Crew				Comments		
08/21/19	6:00		Eric, Caryn				Roman remote		
Energy	Linac	Injector	Pass	Wien Angle	HWP	Slit	Attenuat	Raster	
950 MeV	450	50,8	1	-13	IN			OFF	
		Q1	Q2	Q3	Q4	Dipole			
Amps		130	-30.732	0	24.809	55,25			

N	Time	Ibeam Curr	Run Number	Targ et	H _{coil} Field	Polarization %	FADC	Comments
1	06:20							
2	07:20							Ramping up Target Solenoid to 60A
3	7:02							Ramping up Solenoid to 75 A 4.02 T
4	7:15							Solenoid = 75A (4.02 T)
5								
6	7:16							Cycling Q1 Q2 Q3 Q4 Q1 = 130A
7	7:32							cycling Dipole D = 55.25A
8								
9	7:54	5µA						Tune Beam
10								
11	9:13							Set Target #3 4µm 130,76mm 4.96 Emc
12								
13	9:09							Dipole cycling to 60A
14								
15	9:31	0.3	17498	3	4			bad runs
16	9:35	0.3	17499	3	4			wrong increments
17								reboot VME crate restart CODA
18	9:43	0.3	17500	3	4			Q1=130A D=60A
19	9:47	0.3	17501	3	4			Slit=41,55 D=59A
20	9:49	0.3	17502	3	4			Att=130 D=58A
21	9:57	0.3	17503	3	4			HWP=IN D=57A
22	9:52	0.3	17504	3	4			T=230 D=56A
23	9:55	0.3	17505	3	4			left D=55A
24	9:57	0.3	17506	3	4			D=54A
25	10:00	0.3	17507	3	4			D=53A
26	10:02	0.3	17508	3	4			D=52A

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N	Time	I _{beam} curr	Run Number	Targ et	H _{coil} Field	Polarization %	FADC	Comments
1	10:08							Cycling Dipole to 55.5 A
2	10:08							Cycling Q1 to 150 A
3								
4								Q1 scan (150A) D=55.5 A
5	10:14	0,3	17509	3	4	Slit=41,55		Q1=150 A
6	10:17	0,3	17510	3	4	Att=130		Q1=150 A
7	10:19	0,3	17511	3	4			Q1= 140 145
8	10:22	0,3	17512	3	4			Q1= 140 A
9	10:24	0,3	17513	3	4			Q1= 135 A 140
10	10:26	0,3	17514	3	4			Q1=130 A 135
11	10:28	0,3	17515	3	4			Q1=125 A 130
12	10:30	0,3	17516	3	4			Q1=120 A 125
13	10:32	0,3	17517	3	4			Q1=115 A 120
14	10:34	0,3	17518					Cycling Q1 to 115
15								Cycling Q1 to 130 A
16	10:44	0,3	17519					Beed through Hall B - OFF, Hall C - witness
17	11:13	0,3	17520	-1-				Hall B - beam on slit, Hall C → beam
18								
19								HWP = IN Polarization Measur.
20	11:26	0,7	17521	3	4	Q1=130 A		D=55.5 A
21	11:28	0,7	17522	3	4	Slit=41,55		Att=149
22	11:31	0,7	17523	3	4	T=230		Left
23	11:33	0,7	17524	3	4			
24	11:35	0,7	17525	3	4			
25	11:38	0,7	17526	3	4			
26	11:40	0,7	17527	3	4			
27	11:43	0,7	17528	3	4			
28	11:45	0,7	17529	3	4			
29	11:47	0,7	17530	3	4			
30	11:49	0,7	17531	3	4			
	11:51	0,7	17532	3	4			

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N	Time	I _{beam} curr	Run Number	Targ et	H _{coil} Field	Polarization %	FADC	Comments
1								Continue HWP=IN
2	11:53	0.7	17533	3	4	Q ₁ = 130A		D = 55.5A
3	11:56	0.7	17534	3	4	Slit = 41.55		Att = 149
4	11:58	0.7	17535	3	4	T = 230,		Left trigger
5	11:59	0.7	17536	3	4			
6	12:02	0.7	17537	3	4			
7	12:04	0.7	17538	3	4			
8	12:06	0.7	17539	3	4			
9	12:09	0.7	17540	3	4			
10	12:11	0.7	17541	3	4			
11	12:14	0.7	17542	3	4			
12	12:16	0.7	17543	3	4			
13								
14		0						HWP = OUT
15	12:23	0.7	17544					Bleed through Hall B = 100nA, Hall C = ON
16								Polarization Measurements
17	12:35	0.7	17545	3	4	Slit = 41.55		Att 149
18	12:37	0.7	17546	3	4			
19	12:38	0.7	17547	3	4			
20	12:42	0.7	17548	3	4			
21	12:44	0.7	17549	3	4			
22	12:47	0.7	17550	3	4			
23	12:51	0.7	17551	3	4			
24	12:54	0.7	17552	3	4			
25	12:56	0.7	17553	3	4			
26								HWP = IN (Hall B = 100nA)
27	12:59		17554			Q ₁ = 130A		D = 55.5A
28	13:01		17555					
29	13:03		17556					
30	13:06		17557					
	13:09		17558					

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N	Time	I _{beam} curr	Run Number	Targ et	H _{coil} Field	Polarization %	FADC	Comments
1	13:12	0.7	17559	3	4	HWP=IN		Q1=130A D=SSSA
2	13:14	0.7	17560	3	4	SEIT=41.55		Att=149
3	13:17	0.7	17561	3	4			
4	13:19	0.7	17562	3	4			
5						HWP=OUT		
6	13:32	0.7	17563	3	4			
7	13:34	0.7	17564	3	4			
8	13:36	0.7	17565	3	4			
9	13:39	0.7	17566	3	4			
10	13:41	0.7	17567	3	4			
11	13:44	0.7	17568	3	4			
12	13:46	0.7	17569	3	4			
13	13:48	0.7	17570	3	4			Compton ELOG 3721944 29%
14	13:54	0.7	17571	3	4			diff. for HWP IN and OUT
15								see Elog 3721943
16								change IA/RTP voltages HWP=OUT
17	14:00	0.7	17572	3	4			
18	14:03	0.7	17573	3	4			
19	14:06	0.7	17574	3	4			
20	14:08	0.7	17575	3	4			
21	14:12	0.7	17576	3	4			
22	14:14	0.7	17577	3	4			
23	14:16	0.7	17578	3	4			
24	14:19	0.7	17579	3	4			
25	14:21	0.7	17580	3	4			
26	14:23	0.7	17581	3	4			
27	14:25	0.7	17582	3	4			
28						PITA scan	4384	Parity Run
29	14:31	0.7	17583					
30	14:35	0.7	17584					
	14:38	0.7	17585			PITA 2000	4385	Parity Run
	14:40	0.7	17586			PITA -1000	4386	Parity Run
(4)	15:03					Ramping Solenoid to Zero (16:05)		Target OUT, HV OFF, DIPOLe OFF