

ELENA commissioning committee 15/3/2018

Organisation 2018	Tommy
Commissioning plan	Tommy
Ion source status	Bertrand
Electron cooler status	Lars/Gerard
AOB	

Organisation 2018

- Key dates:
 - Commissioning start 5/4 with Ions and 23/4 with Pbars
 - 3 Pbar morning shifts/week planned from 23/4 until 27/7
 - Ions to Gbar end April
 - First Pbars to Gbar presently planned for 30/7
 - => also means ELENA Pbar commissioning should be ~completed 27/7
 - If needed, continued Pbar commissioning during Gbar shifts
- Day shifts Mon - Fri
- ECC meetings every second week
- Monday 10:00 briefings in ACR

AD Schedule 2018 (Version 0.2 Jan. 15th, 2018)

	Wk	Mon	Tue	Wed	Thu	Fri	Sat	Sun	
	12	AD / ELENA setting up							
	13	AD / ELENA setting up							
Apr 02 - Apr 08	14	07-15-23-07							
Apr 09 - Apr 15	15	MD AD5 AD3	AD2 AD5 AD3	ELE AD5 AD3	AD2 AD5 AD3	ELE AD5 AD3	AD2 AD5 AD3	AD2 AD5 AD3	AD6
Apr 16 - Apr 22	16	ELE AD2 AD5	AD6 AD2 AD5	ELE AD2 AD5	AD6 AD2 AD5	ELE AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD3
Apr 23 - Apr 29	17	ELE AD6 AD2	AD3 AD6 AD2	ELE AD6 AD2	AD3 AD6 AD2	ELE AD6 AD2	AD3 AD6 AD2	AD3 AD6 AD2	AD5
Apr 30 - May 06	18	MD AD3 AD6	AD5 AD3 AD6	ELE AD3 AD6	AD5 AD3 AD6	ELE AD3 AD6	AD5 AD3 AD6	AD5 AD3 AD6	AD2
May 07 - May 13	19	ELE AD5 AD3	AD2 AD5 AD3	ELE AD5 AD3	AD2 AD5 AD3	ELE AD5 AD3	AD2 AD5 AD3	AD2 AD5 AD3	AD6
May 14 - May 20	20	ELE AD2 AD5	AD6 AD2 AD5	ELE AD2 AD5	AD6 AD2 AD5	ELE AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD3
May 21 - May 27	21	MD AD6 AD2	AD3 AD6 AD2	ELE AD6 AD2	AD3 AD6 AD2	ELE AD6 AD2	AD3 AD6 AD2	AD3 AD6 AD2	AD5
May 28 - Jun 03	22	ELE AD3 AD6	AD5 AD3 AD6	ELE AD3 AD6	AD5 AD3 AD6	ELE AD3 AD6	AD5 AD3 AD6	AD5 AD3 AD6	AD2
Jun 04 - Jun 10	23	ELE AD5 AD3	AD2 AD5 AD3	ELE AD5 AD3	AD2 AD5 AD3	ELE AD5 AD3	AD2 AD5 AD3	AD2 AD5 AD3	AD6
Jun 11 - Jun 17	24	MD AD2 AD5	AD6 AD2 AD5	ELE AD2 AD5	AD6 AD2 AD5	ELE AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD3
Jun 18 - Jun 24	25	ELE AD6 AD2	AD3 AD6 AD2	ELE AD6 AD2	AD3 AD6 AD2	ELE AD6 AD2	AD3 AD6 AD2	AD3 AD6 AD2	AD5
Jun 25 - Jul 01	26	ELE AD3 AD6	AD5 AD3 AD6	ELE AD3 AD6	AD5 AD3 AD6	ELE AD3 AD6	AD5 AD3 AD6	AD5 AD3 AD6	AD2
Jul 02 - Jul 08	27	MD AD5 AD3	AD2 AD5 AD3	ELE AD5 AD3	AD2 AD5 AD3	ELE AD5 AD3	AD2 AD5 AD3	AD2 AD5 AD3	AD6
Jul 09 - Jul 15	28	ELE AD2 AD5	AD8 AD2 AD5	ELE AD2 AD5	AD8 AD2 AD5	ELE AD2 AD5	AD8 AD2 AD5	AD8 AD2 AD5	AD3
Jul 16 - Jul 22	29	ELE AD8 AD2	AD6 AD8 AD2	ELE AD8 AD2	AD6 AD8 AD2	ELE AD8 AD2	AD6 AD8 AD2	AD6 AD8 AD2	AD3
Jul 23 - Jul 29	30	MD AD6 AD8	AD3 AD6 AD8	ELE AD6 AD8	AD3 AD6 AD8	ELE AD6 AD8	AD3 AD6 AD8	AD3 AD6 AD8	AD2
Jul 30 - Aug 05	31	AD7 AD3 AD6	AD7 AD3 AD6	AD7 AD3 AD6	AD7 AD3 AD6	AD7 AD3 AD6	AD7 AD3 AD6	AD7 AD3 AD6	AD2 AD5
Aug 06 - Aug 12	32	AD5 AD7 AD3	AD5 AD7 AD3	AD5 AD7 AD3	AD5 AD7 AD3	AD5 AD7 AD3	AD5 AD7 AD3	AD5 AD7 AD3	AD2 AD6
Aug 13 - Aug 19	33	MD AD5 AD7	AD2 AD5 AD7	AD2 AD5 AD7	AD2 AD5 AD7	AD2 AD5 AD7	AD2 AD5 AD7	AD2 AD5 AD7	AD3 AD6
Aug 20 - Aug 26	34	AD6 AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD3 AD7
Aug 27 - Sep 02	35	AD3 AD6 AD2	AD3 AD6 AD2	AD3 AD6 AD2	AD3 AD6 AD2	AD3 AD6 AD2	AD3 AD6 AD2	AD3 AD6 AD2	AD5 AD7
Sep 03 - Sep 09	36	MD AD3 AD6	AD7 AD3 AD6	AD7 AD3 AD6	AD7 AD3 AD6	AD7 AD3 AD6	AD7 AD3 AD6	AD7 AD3 AD6	AD2 AD5
Sep 10 - Sep 16	37	AD8 AD7 AD3	AD8 AD7 AD3	AD8 AD7 AD3	AD8 AD7 AD3	AD8 AD7 AD3	AD8 AD7 AD3	AD8 AD7 AD3	AD2 AD6
Sep 17 - Sep 23	38	AD5 AD8 AD7	AD5 AD8 AD7	AD5 AD8 AD7	AD5 AD8 AD7	AD5 AD8 AD7	AD5 AD8 AD7	AD5 AD8 AD7	AD2 AD6
Sep 24 - Sep 30	39	MD AD5 AD8	AD2 AD5 AD8	AD2 AD5 AD8	AD2 AD5 AD8	AD2 AD5 AD8	AD2 AD5 AD8	AD2 AD5 AD8	AD3 AD7
Oct 01 - Oct 07	40	AD6 AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD3 AD7
Oct 08 - Oct 14	41	AD3 AD6 AD2	AD3 AD6 AD2	AD3 AD6 AD2	AD3 AD6 AD2	AD3 AD6 AD2	AD3 AD6 AD2	AD3 AD6 AD2	AD5 AD7
Oct 15 - Oct 21	42	MD AD3 AD6	AD7 AD3 AD6	AD7 AD3 AD6	AD7 AD3 AD6	AD7 AD3 AD6	AD7 AD3 AD6	AD7 AD3 AD6	AD2 AD5
Oct 22 - Oct 28	43	AD5 AD7 AD3	AD5 AD7 AD3	AD5 AD7 AD3	AD5 AD7 AD3	AD5 AD7 AD3	AD5 AD7 AD3	AD5 AD7 AD3	AD2 AD6
Oct 29 - Nov 04	48	AD2 AD5 AD7	AD2 AD5 AD7	AD2 AD5 AD7	AD2 AD5 AD7	AD2 AD5 AD7	AD2 AD5 AD7	AD2 AD5 AD7	AD3 AD6
Nov 05 - Nov 11	49	AD6 AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD6 AD2 AD5	AD3 AD7

AD physics stop November 11th 6AM.

Injector MD (8:00-18:00) every Wednesday

AD2 (ATRAP) AD5 (ALPHA) AD3 (ASACUSA) AD6 (AEGIS) AD7 (GBAR) AD8 (BASE)

ELENA setup 42 Shifts

Based on injector schedule V0.6

ELENA commissioning plan

- E-cooler commissioning dictates the initial planning:
 - Establish Pbar and Ion beams
 - Schottky analysis with FFT analyser, LPU status? (BPM based system)
 - With Pbars and Ions:
 - Measure orbit (+tunes) effects with main solenoid ON (in steps)
 - Set-up compensating solenoids; orbit deformation, tunes/coupling, further optics verifications?
 - Establish electron beam, can be done in parallel with circulating beam
 - Establish cooling (need pause on plateau)
- Main other activities:
 - Continue diagnostics set-up: BBQ, scraper based profiles, LPU/Schottky system etc.
 - Gbar extraction
 - Set-up/optimize deceleration cycle => efficiency, final emittances/lifetime
 - Optics validation