

Machine Studies

Schedule for Run26-3, 2026

September 2st 0800 – September 9th, 0800

Time	Descriptions	Studiers	SR Status
Wednesday, September 2, 2026			
0000-0400	General machine start-up	Technical groups	No Stored Beam
0400-0800	General machine start-up	Technical groups	No Stored Beam
0800-1200	MPS validations	Controls/Ops	No Stored Beam
1200-1600	Set up injector current monitors	Rob Keane	No Stored Beam
1600-2000	General machine start-up	Technical groups	No Stored Beam
2000-2400	Swap-out permissive validation	Borland	No Stored Beam
2000-2400	Injector available		No Stored Beam
Thursday, September 3, 2026			
0000-0400	General machine start-up	Technical groups	No Stored Beam
0400-0800	General machine start-up	Technical groups	No Stored Beam
0800-0900	0.5 mA ID gaps open MPS validation with all SR RF systems	Ops	Stored Beam & Injection
0900-0910	Check MOFB 5 mA ID gaps open	Emery	Stored Beam & Injection
0900-1200	BM BPLD validations 5 mA	Bui, Shang, Smith	Stored Beam & Injection
1200-1400	Dimtel LFB/TFB timing checks 1 mA ID	Kallakuri	Stored Beam &

	gaps closed from here on		Injection
1400-1600	S38 (and other) collimator positioning using postmortems 5 mA	Dick	Stored Beam & Injection
1600-2000	Determine whether BLS runs well for a range of voltages for > 20 mA	Emery Fuerst	Stored Beam & Injection
1600-2400	RF conditioning with beam with 216 bunches. Challenge BLS with some voltage during this time	Emery Ops	Stored Beam & Injection
2000-2400	LFB setup for 216 bunches at moderate current (could start later than expected)	Kallakuri	Stored Beam & Injection
Friday, September 4, 2026			
0000-0800	RF conditioning with beam with 216 bunches. 200 mA	Ops	Stored Beam & Injection
	Start of machine studies proper		
0800-1000	Linac rf timing switch and beam tuning	Ran Hong, Y. Sun, Y. Yang	Stored Beam & Injection
1000-1200	Check out SR orbit. May need to re-measure bpm offsets	Emery, Dick	Stored Beam & Injection
1200-1600	Orbit response and optics correction. (split time with above to allow calculations)	Dick Emery	Stored Beam & Injection
1400-1600	Punch down vertical fast correctors for 60 Hz noise measurement. (FOFB related)	Emery	Stored Beam & Injection
1600-1800	Operator training (day shift)	Ops	Stored Beam & Injection
1800-2200	Hysteresis compensation for SR Q1/Q2	Chenran	Stored Beam & Injection
2200-2400	Operator training (night shift)	Ops	Stored Beam & Injection
Saturday, September 5, 2026			
0000-0400	Open		Stored Beam & Injection
0400-0600	Open		Stored Beam & Injection
0600-0800	Operator training (day shift)	Ops	Stored Beam &

			Injection
0800-1200	Maximize aperture in SR septum area. Collimators out.	Emery	Stored Beam & Injection
1200-1600	BLS quench investigation of 130 mA decays in 48 bunches (a tougher test from previous day)	Emery Fuerst	Stored Beam & Injection
1600-1800	Open	Ops	Stored Beam & Injection
1800-2000	Operator training (night shift)	Ops	Stored Beam & Injection
2000-2400	Open		Stored Beam & Injection

Sunday, September 6, 2026

0000-0600	LFB characterization at 200 mA with grow/damp measurement	Kallakuri	Stored Beam & Injection
0600-0800	Operator training (day shift)	Ops	Stored Beam & Injection
0800-1200	Booster direct rf feedback studies. Need high charge.	Berenc Calvey Mohsen	Stored Beam & Injection
1200-1800	Gas scattering lifetime at 150 mA and 100 mA	Borland Emery	Stored Beam & Injection
1800-2400	RG1 study I	Y. Sun, Chenran	Stored Beam & Injection

Monday, September 7, 2026

0000-0200	Operator training (night shift)	Ops	Stored Beam & Injection
0200-0600	Open		
0600-0800	Operator training (day shift)	Ops	Stored Beam & Injection
0800-1200	Open		Stored Beam & Injection
1200-1800	Low-beta lattice commissioning	Borland Emery Dick	Stored Beam & Injection
1800-2200	S09-FOFB (including S29 single-FOFB)	Carwardine	Stored Beam & Injection
2200-0200	Phase measurements for off-momentum	Sajaev Dick	Stored Beam &

	beam with TBT bpms	Chenran	Injection
Tuesday, September 8, 2026			
0200-0400	Operator training (night shift)	Ops	Stored Beam & Injection
0400-0600	Open		
0600-0800	Operator training (day shift)	Ops	Stored Beam & Injection
0800-1000	S02-IS XBPM commissioning	W. Li	Stored Beam & Injection
1000-1300	Beam loss with AC excitation	Cheng	Stored Beam & Injection
1300-2100	RG1 study I	Y. Sun, Chenran	Stored Beam & Injection
2100-2300	Revert linac timing to operational one	Ran Hong, Y. Sun	Stored Beam & Injection
2300-2400	Open		Stored Beam & Injection
Wednesday, September 9, 2026			
0000-0200	Operator training (night shift)	Ops	Stored Beam & Injection
0200-0400	Open		Stored Beam & Injection
0400-0600	Final check of lattice	Emery Dick	Stored Beam & Injection
0600-0800	Prepare for User Beam Operations 200 mA – 216 bunches	OPS	Stored Beam & Injection