

Machine Studies

Schedule for Run26-2, 2026

May 21st 0800 – May 27th, 0800

Time	Descriptions	Studios	SR Status
Thursday, May 21, 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
0900-0900	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 gaps closed from here on	Kallakuri	Stored Beam & Injection
1400-1600	S38 collimator positioning using postmortems 5 mA	Borland, Dick	Stored Beam & Injection
1600	Setup BLS tuning for 200 mA before filling > 20 mA	Emery Fuerst	Stored Beam & Injection
1600-2400	RF conditioning with beam with 216 bunches. S36 cavities phases roughly optimized. Need to maintain BLS 1.0 MV.	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, May 22, 2026			
0000-0700	RF conditioning with beam with 216 bunches. 200 mA	Ops	Stored Beam & Injection
0400-0700	Parasitic bunch length measurement with S37 fast scope (could start earlier)	Cheng	Stored Beam & Injection

0700-0800	Setup BEFI	Bruno	Stored Beam & Injection
	Start of machine studies proper		
0800-0945	M1/M2 interlock test with beam	Borland Smith	Stored Beam & Injection
0945-1000	BEFI final check with shutters open	Bruno, floor coordinators	Stored Beam & Injection
1000-1200	Checkout simultaneous steerings for IDs, Also add FOFB setpoint PVs to knobs	Emery Shang	Stored Beam & Injection
1200-1400	Empirical coefficients of CU steering	Emery Shang	Stored Beam & Injection
1400-1600	Test different swap-out intervals and injector enable times.	Berkland Fystro	Stored Beam & Injection
1600-1900	BTS quad scan measurement + camera setup	Chenran	Stored Beam & Injection
1600-2200	Orbit response and optics correction. (split time with above to allow calculations)	Emery, Xu, Dick	Stored Beam & Injection
2200-0200	Long term stability with MOFB off	Cheng	Stored Beam & Injection

Saturday, May 23, 2026

0200-0400	BPM offset measurement. S23BP0 and S30AP5	Emery Cheng	Stored Beam & Injection
0400-0600	Operator training (night shift)	Ops	Stored Beam & Injection
0600-0800	Operator training (day shift)	Ops	Stored Beam & Injection
0800-1200	Testing S09 FOFB setup for user operations. Check with ID steering.	Carwardine Kallakuri	Stored Beam & Injection
1200-1600	BLS quench investigation of 130 mA decays in 48 bunches	Emery Fuerst	Stored Beam & Injection
1600-1900	ID perturbation measurement that includes ID01, during linac study	Emery	Stored Beam & No Injection
1600-1900	linac beam emittance	Chenran	Stored Beam & No Injection

1900-2100	Operator training (night shift)	Ops	Stored Beam & Injection
2100-2400	Open		Stored Beam & Injection

Sunday, May 24, 2026

0000-0400	SR magnet family conditioning out of order with orbit response measurement	Emery	Stored Beam & Injection
0200-0600	Open		
0600-0800	Operator training (day shift)	Ops	Stored Beam & Injection
0800-1000	MPS ready fault while injecting the 1st bunch	Cheng	Stored Beam & Injection
1000-1200	BPM sum versus bunch length. Need to vary RF voltages.	Cheng	Stored Beam & Injection
1200-1400	Open		Stored Beam & Injection
1600-2400	Low-beta lattice commissioning	Borland Emery Dick	Stored Beam & Injection

Monday, May 25, 2026

0000-0200	Operator training (night shift)	Ops	Stored Beam & Injection
0200-0600	Open		
0600-0800	Operator training (day shift)	Ops	Stored Beam & Injection
0800-1100	HOM search in sector 40	Kallakuri, Emery	Stored Beam & Injection
1100-1300	Optimize S36 phases more precisely with f_s measurements	Kallakuri, Emery	Stored Beam & Injection
1300-1600	Grow-damp measurements of LFB	Kallakuri, Emery	Stored Beam & Injection
1600-1800	Open		
1800-2000	Operator training (night shift)	Ops	Stored Beam & Injection
2000-2400	Open		Stored Beam &

			Injection
Tuesday, May 26, 2026			
0000-0500	Open		Stored Beam & Injection
0500-0600	FOFB operator training	Berkland	Stored Beam & Injection
0600-0800	Operator training (day shift)	Ops	Stored Beam & Injection
0800-1100	Reduce SR IK settings while maintaining good efficiency.	Emery Dick	Stored Beam & Injection
1100-1300	IEX speed up tests	Emery Smith	Stored Beam & Injection
1300-1500	Stored beam monitor tests with decay (cancelled last run)	Berkland Fystro	Stored Beam & Injection
1500-1600	FOFB operator training	Berkland	Stored Beam & Injection
1600-1800	Open		Stored Beam & Injection
1800-2000	Operator training (night shift)	Ops	Stored Beam & Injection
2000-0200	24 sextupole families optimization	Kuklev Borland Emery	Stored Beam & Injection
Wednesday, May 27, 2026			
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