

# Machine Studies

## Schedule for Run25-1, 2025

January 20th 0800 – January 27th, 0800

Time	Descriptions	Studios	SR Status
<b>Monday, January 20, 2024</b>			
0800-0900	1 mA in ring, correct BTS trajectory and correct SR orbit; MPS validation with beam	Emery, Ops	Stored Beam & Injection
0900-1200	BM BPLD software checkout and validations. 10 mA	Bui, Shang	Stored Beam & Injection
1200-1300	Response matrix for LOCO	Emery	Stored Beam & Injection
1300-1600	Horizontal collimator position adjustment with POMO data , single bunch	Borland	Stored Beam & Injection
1600-2400	RF conditioning with beam - 162 bunches, ID gaps closed, higher rf voltage, BLS running. Target 200 mA	Emery, Ops, Berenc, M. Kelly	Stored Beam & Injection
1600-1700	Check BLS quench protection	Berenc	Stored Beam & Injection
1600-1700	Verify logging of PSD; check orbit stability	Borland	Stored Beam & Injection
1600-1800	TFB functionality check	Diag group	Stored Beam & Injection
<b>Tuesday, January 21, 2024</b>			
0000-0400	RF conditioning with beam - 162 bunches, ID gaps closed, higher rf voltage, BLS running. Target 200 mA	Emery, Ops, Berenc, M. Kelly	Stored Beam & Injection
0400-0800	RG2 beam tune up for injection to PAR	Y. Sun	Stored Beam & No Injection
0800-1000	Booster general tuning	Calvey	Stored Beam & No Injection

0800-1000	SR LB+ check after switching to SD card booting	Cheng	Stored Beam & No Injection
0900-1000	BEFI checkout with beam	Gustavo	Stored Beam & No Injection
1000-1400	PAR high Charge	Mohsen Calvey	Stored Beam & No Injection
1400-1800	Booster rf parameter adjustment	Berenc, Calvey, Mohsen	Stored Beam & No Injection
1800-2200	Booster high charge	Calvey, Mohsen	Stored Beam & No Injection
2200-2400	Look at BTS trajectory with new BTS dipole supplies	Emery	Stored Beam & Injection

### Wednesday, January 22, 2024

0000-0700	FOK y-displacement measurement in pinger mode	Dooling	Stored Beam & Injection
0700-0800	PAR kicker noise 1 h on LTP monitor no beam	Keane	Stored Beam & No Injection
0800-1200	Septum LFC tuning. Multi-bunch, injection on demand	Borland	Stored Beam & Injection
1200-1600	ID BPLD validations	Bui, Shang	Stored Beam & Injection
1600-1800	Testing of MPS/BPLD partial beam loss detection	Cheng	Stored Beam & No Injection
1800-2400	LFB optimization with the CAV1 reinstalled	Diag group	Stored Beam & No Injection

### Thursday, January 23, 2024

0000-0800	Open	Weixing	Stored Beam & Injection
0800-1000	SR hands on training	Emery, COs	Stored Beam & Injection
1000-1400	LOCO correction	Sajaev, Emery	Stored Beam & Injection
1400-1600	Bunch length measurement from button BPM signal	Cheng	Stored Beam & Injection

1600-1800	Characterization of BCM nonlinearity at high bunch currents	Cheng	Stored Beam & Injection
1800-2200	Orbit feedback studies to simulate local FOFB with MOFB	Carwardine, Kallakuri	Stored Beam & Injection
2200-2400	Open		Stored Beam & Injection
<b>Friday, January 24, 2024</b>			
0000-0800	Open	Weixing	Stored Beam & Injection
0800-1200	Open for now, in case an access is needed		Stored Beam & Injection
1200-1800	Lifetime vs chromaticity. High charge per bunch.	Borland	Stored Beam & Injection
1800-2100	Synchronous phase measurement	Cheng	Stored Beam & Injection
2100-2400	Open		Stored Beam & No Injection
<b>Saturday, January 25, 2024</b>			
0000-0800	Open		Stored Beam & Injection
0800-1400	PAR Harmonic high voltage study	Mohsen, Calvey	Stored Beam & Injection
1400-2000	RG1 rf conditioning and beam commissioning	Y. Sun	Stored Beam & Injection
2000-2300	Spark ERXR fine timing adjustment and optimization	Cheng	Stored Beam & Injection
2300-2400	Open		Stored Beam & Injection
<b>Sunday, January 26, 2024</b>			
0000-0800	Open		Stored Beam & Injection
0800-1200	ID gap feedforward	Emery	Stored Beam & Injection
1200-1800	X-ray bpm checkout	Diag group	Stored Beam & Injection

<b>1800-2400</b>	<b>Open</b>		<b>Stored Beam &amp; Injection</b>
<b>Monday, January 27, 2024</b>			
<b>0000-0600</b>	<b>Open</b>		<b>Stored Beam &amp; Injection</b>
<b>0600-0800</b>	<b>Prepare for User Beam Operations 160 mA (?) – 162 bunches</b>	<b>OPS</b>	<b>Stored Beam &amp; Injection</b>