

# Machine Studies

## Draft Schedule for Run02-1, 2022

May 24th 0800 – May 31st 0800

<b>Time</b>	<b>Descriptions</b>	<b>Studiers</b>	<b>SR Status</b>
<b>Monday, May 23, 2022 - Prestudies</b>			
<b>0800-1000</b>	<b>MPS Validations</b>	<b>Smith/Flood</b>	<b>No Injection</b>
<b>1000-2400</b>	<b>RF Conditioning with Beam (24 singlets)</b>	<b>Flood/OPS</b>	<b>Stored Beam &amp; Injection</b>
<b>1200-1600</b>	<b>New BTS current monitor testing</b>	<b>Sereno BNL staff</b>	<b>Stored Beam &amp; Injection</b>
<b>~1500</b>	<b>Pinhole camera initial set-up (above 50-mA) parallel to RF conditioning</b>	<b>Yang</b>	<b>Stored Beam &amp; Injection</b>
<b>~1600</b>	<b>BCM Gen 3 checkout</b>	<b>Emery</b>	<b>Stored Beam &amp; Injection</b>
<b>~1700</b>	<b>BPM checkout (parallel to RF conditioning)</b>	<b>Sereno</b>	<b>Stored Beam &amp; Injection</b>
<b>Tuesday, May 24, 2022</b>			
<b>0000-0800</b>	<b>Open – prestudies</b>		<b>Stored Beam &amp; Injection</b>
<b>0800-1200</b>	<b>BPLD validations</b>	<b>Hahne</b>	<b>Stored Beam &amp; Injection</b>
<b>1200-1400</b>	<b>X-BPM sanity check</b>	<b>Hahne</b>	<b>Stored Beam &amp; Injection</b>
<b>1200-1600</b>	<b>New BTS current monitor testing (parasitic)</b>	<b>Sereno BNL staff</b>	<b>Stored Beam &amp; Injection</b>
<b>1400-1500</b>	<b>Setup Dimtel timing (may be done during rf conditioning)</b>	<b>Emery</b>	<b>Stored Beam &amp; Injection</b>
<b>1500-1900</b>	<b>Lattice set up</b>	<b>Emery/Yipeng</b>	<b>Stored Beam &amp; Injection</b>
<b>1900-2400</b>	<b>Orbit recovery</b>	<b>Yipeng</b>	<b>Stored Beam &amp; Injection</b>

0000-2300	RF Conditioning with Beam (24 singlets)	Flood/OPS	Stored Beam & Injection
2300-2400	BPLD validations; X-ray bpm checks	Sereno	Stored Beam & Injection
<b>Wednesday, May 25, 2022</b>			
0000-0200	BPLD validations; X-ray bpm checks	Sereno	Stored Beam & Injection
0200-0600	Lattice checkout	Emery	Stored Beam & Injection
0600-1000	Orbit Recovery	Yipeng	Stored Beam & Injection
1000-1200	Linac Access	Ops	Stored Beam & No Injection
1030-1300	Booster Access	Ops	Stored Beam & No Injection
1600-2000	PAR ion study	Calvey Wootton	Stored Beam & No Injection
1600-1800	Undulator gap cycling (no beam necessary)	Weir	Stored Beam & No Injection
2000-2200	DG645 triggering BTS:CM during topup	Hong	Stored Beam & Injection
2200-2400	Open		Stored Beam & Injection
<b>Thursday, May 26, 2021</b>			
0000-0800	Open		Stored Beam & Injection
0800-1200	BTS response measurement	Yao, Shang	No beam
1200-1600	Booster tune-up I (good enough for IETS)	Calvey	Stored Beam & No Injection
1600-1800	Booster current monitor calibration	Calvey	Stored Beam & No Injection
1800-2400	linac TC-gun-beam energy-spread measurements	Dooling Yin-e	Stored Beam & No Injection
<b>Friday, May 27, 2022</b>			
0000-0600	S28ID XBPM	Yang	Stored Beam & Injection
0600-0800	Injector current measurement aggregator	Arnold	Stored Beam & Injection
0800-1800	IETS	Wienands, Fors,	Stored Beam &

		<b>Berenc, Farrell</b>	<b>Injection</b>
<b>1700-1800</b>	<b>Check Dimtel phase after the IETS recovery</b>	<b>Emery</b>	<b>Stored Beam &amp; Injection</b>
<b>1800-2000</b>	<b>Injector current measurement aggregator (if necessary)</b>	<b>Arnold</b>	<b>Stored Beam &amp; Injection</b>
<b>1800-2200</b>	<b>XBPM script test (no injection for part)</b>	<b>Shang Yang</b>	<b>Stored Beam &amp; Injection</b>
<b>2200-2400</b>	<b>IEX/CPU checkout</b>	<b>Emery</b>	<b>Stored Beam &amp; Injection</b>
<b>Saturday, May 28, 2022</b>			
<b>0000-0200</b>	<b>IEX/CPU checkout</b>	<b>Emery</b>	<b>Stored Beam &amp; Injection</b>
<b>0200-0800</b>	<b>Open</b>		<b>Stored Beam &amp; Injection</b>
<b>0800-1600</b>	<b>S25ID and S28ID XBPM calibration</b>	<b>Yang</b>	<b>Stored Beam &amp; Injection</b>
<b>1600-2000</b>	<b>BTS trajectory studies</b>	<b>Yao Shang</b>	<b>No Stored Beam &amp; Injection</b>
<b>2000-2400</b>	<b>IEX/CPU correction if necessary</b>	<b>Emery</b>	<b>Stored Beam &amp; Injection</b>
<b>Sunday, May 29, 2022</b>			
<b>0000-0800</b>	<b>Open</b>		<b>Stored Beam &amp; Injection</b>
<b>0800-1000</b>	<b>Open</b>		<b>Stored Beam &amp; Injection</b>
<b>1000-1800</b>	<b>ID gap cycling</b>	<b>Weir</b>	<b>Stored Beam &amp; Injection</b>
<b>1800-2000</b>	<b>Injector current measurement aggregator (if necessary)</b>	<b>Arnold</b>	<b>Stored Beam &amp; Injection</b>
<b>2000-2400</b>	<b>Open</b>		<b>Stored Beam &amp; Injection</b>
<b>Monday, May 30, 2022</b>			
<b>0000-0600</b>	<b>6 GeV Stability</b>	<b>Emery</b>	<b>Stored Beam &amp; Injection</b>
<b>0600-1000</b>	<b>Open</b>		
<b>1000-1200</b>	<b>Abort kicker checkout</b>	<b>Yipeng</b>	<b>Stored Beam &amp; Injection</b>

<b>1200-1600</b>	<b>Final lattice checkout</b>	<b>Emery/Yipeng</b>	<b>Stored Beam &amp; Injection</b>
<b>1600-2400</b>	<b>Final set-up of bunch purity monitor and pinhole camera</b>	<b>Yang/Yipeng</b>	<b>Stored Beam &amp; Injection</b>
	<b>Tuesday, May 31, 2022</b>		
<b>0000-6300</b>	<b>Open</b>		<b>Stored Beam &amp; Injection</b>
<b>0630-0800</b>	<b>Prepare for User beam</b>	<b>OPS</b>	