

# Machine Studies

## Schedule for Run 1999

October 29, 0800 to November 4, 0800

<b>Time</b>	<b>Descriptions</b>	<b>Studiers</b>	<b>SRStatus</b>
	<b>Friday, 10/29/1999</b>		
<b>0800-1200</b>	<b>Tuning DI water temperature control</b>	<b>Swetin</b>	<b>No beam No injection</b>
<b>0800-1000</b>	<b>Re-configure iocs35, 37 and 39 vp</b>	<b>Gunderson</b>	<b>No beam No injection</b>
<b>0800-1000</b>	<b>SR injection septum current readback test</b>	<b>Hillman</b>	<b>No injection</b>
<b>0800-1200</b>	<b>linac MV20 system test</b>	<b>Arnold</b>	<b>Linac beam only</b>
<b>1200-2000</b>	<b>Verify subsystem function and Restore SR operation</b>	<b>Yao</b>	<b>Stored beam and injection</b>
<b>2000-2200</b>	<b>Re-commission Mono-pulse receivers</b>	<b>Decker Lill</b>	<b>Stored beam and injection</b>
<b>2200-2400</b>	<b>BPLD validation and re-measurement of P1 BPM offsets</b>	<b>Decker Pietryla</b>	<b>Stored beam and Injection</b>
	<b>Saturday, 10/30/1999</b>		
<b>0000-0400</b>	<b>Continue BPLD validation and re-measurement of P1 BPM offsets</b>	<b>Decker Pietryla</b>	<b>Stored beam and Injection</b>
<b>0400-0600</b>	<b>Feedback start-up test</b>	<b>Carwardine</b>	<b>Stored beam and Injection</b>
<b>0600-1000</b>	<b>SR septum orbit transient feed-forward software test</b>	<b>Carwardine</b>	<b>Stored beam and Injection</b>
<b>1000-1200</b>	<b>S35 BM camera operation verification</b>	<b>Lumpkin Yang</b>	<b>Stored beam and Injection</b>
<b>1200-1600</b>	<b>Storage ring damping time measurement with RF frequency scan</b>	<b>Yang Borland</b>	<b>Stored beam and injection</b>

<b>Time</b>	<b>Descriptions</b>	<b>Studiers</b>	<b>SRStatus</b>
<b>1600-2000</b>	<b>Re-timing the kickers to minimize the stored beam betatron oscillations</b>	<b>Emery</b>	<b>Stored beam and Injection</b>
<b>2000-2400</b>	<b>Install betay-corrected lattice</b>	<b>Emery</b>	<b>Stored beam and Injection</b>
<b>Sunday, 10/31/1999</b>			
<b>0000-0400 (5 hours)</b>	<b>Available</b>		
<b>0400-0800</b>	<b>Single bunch instability baseline measurement</b>	<b>Harkay Lessner</b>	<b>Stored beam and injection</b>
<b>0800-1200</b>	<b>Bunch length and energy spread measurement with streak camera, shutter support needed</b>	<b>Harkay Lessner Yang</b>	<b>Stored beam and injection</b>
<b>1200-1600</b>	<b>Electron cloud study</b>	<b>Harkay Rosenberg</b>	<b>Stored beam and injection</b>
<b>1600-2000</b>	<b>Booster running at low frequency</b>	<b>Yao</b>	<b>Stored beam and injection</b>
<b>2000-2200</b>	<b>S35 BM/ID and S36 AM source point beta function measurement.</b>	<b>Yao</b>	<b>Stored beam and Injection</b>
<b>2200-2400</b>	<b>BPM beam scrape-down training</b>	<b>Singh Lester Lill</b>	<b>Stored beam and injection</b>
<b>Monday, 11/01/1999</b>			
<b>0000-0200</b>	<b>BPM beam scrape-down training</b>	<b>Singh Lester Lill</b>	<b>Stored beam and injection</b>
<b>0200-0600</b>	<b>Mono-pulse receiver training</b>	<b>Singh Lester Lill</b>	<b>Stored beam and injection</b>
<b>0600-1200</b>	<b>DC mode of Booster dipole supplies</b>	<b>Wang Puttkam</b>	<b>Stored beam only.</b>
<b>1000-1200</b>	<b>SR Xfer matrice measurement</b>	<b>Carwardine</b>	<b>Stored beam only.</b>

<b>Time</b>	<b>Descriptions</b>	<b>Studiers</b>	<b>SRStatus</b>
<b>0600-1200</b>	<b>Beam-based linac timing jitter measurement</b>	<b>Lewellen Travish</b>	<b>No injection</b>
<b>1200-1600</b>	<b>Commission septum orbit transient feed-forward</b>	<b>Carwardine</b>	<b>Stored beam and Injection</b>
<b>1600-2400</b>	<b>Linac to Booster injection commissioning</b>	<b>Sereno Lenkszus</b>	<b>No injection</b>
<b>1600-2400</b>	<b>Tuning SR DI water temperature control</b>	<b>Swetin</b>	<b>No injection</b>
<b>Tuesday, 11/02/1999</b>			
<b>0000-0800</b>	<b>S3 and S14 P0 response calibration, DBPLD commissioning</b>	<b>Decker Singh</b>	<b>Stored beam and injection</b>
<b>0800-1200</b>	<b>BPM thermal effects studies</b>	<b>Emery Dortwegt</b>	<b>Stored beam and injection</b>
<b>1200-1600</b>	<b>Check radiation level during refill with shutters open. Shutter support needed</b>	<b>Emery</b>	<b>Stored beam and injection</b>
<b>1600-2400</b>	<b>Establish user orbit and BPM studies</b>	<b>Decker Singh</b>	<b>re-injection possible</b>
<b>1600-2400</b>	<b>Thermionic RF gun#2 beam test</b>	<b>Lumpki Sereno</b>	<b>No injection</b>
<b>Wednesday, 11/03/1999</b>			
<b>0000-0400</b>	<b>Test orbit feedback with small matrix terms zeroed out</b>	<b>Carwardine Lenkszus</b>	<b>Stored beam and injection</b>
<b>0400-0800</b>	<b>Measurement of corrector dynamic performance</b>	<b>Carwardine</b>	<b>Stored beam and injection</b>
<b>0800-1000</b>	<b>BPM scrape down, Check/commission S7A:P0</b>	<b>Singh</b>	<b>Stored beam and injection</b>
<b>1000-1800</b>	<b>Top-up studies with SRI CAT users, shutter support needed</b>	<b>Emery SRI CAT</b>	<b>Stored beam and injection</b>
<b>1800-2100</b>	<b>Performance test for PV gateway</b>	<b>Borland</b>	<b>Stored beam only</b>
<b>1800-2400</b>	<b>Booster bunch cleaning experiment</b>	<b>Sereno</b>	<b>No injection</b>
<b>2100-2400</b>	<b>Available time.</b>		<b>Stored beam only</b>

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<b>Thursday, 11/04/1999</b>			
<b>0000-0200</b>	<b>Continue booster bunch cleaning experiment</b>	<b>Sereno</b>	<b>No injection</b>
<b>0200-0600</b>	<b>BPM thermal effect data collection</b>	<b>Ops Yao</b>	<b>Stored beam and injection</b>
<b>0600-0800</b>	<b>Operator training, ready for User operations</b>	<b>Ops Yao</b>	<b>Stored beam and injection</b>