



Machine Studies:
 p-Timing/Phaseloops
 e+ Lumi Optics ORM
 p Optics: single Quad meas.

**30mA e+ Run for
 Exp. Background
 Studies**

**18 mA e+ Energy Scan
 for Exp. Backg.
 Studies**

e/p Runs for Beam Beam Studies:
 $I_p \approx 20$ mA Protons in 60 Bunches
 $I_e \approx 15 \dots 19$ mA stored in 84 Bunches

**Technical Problems: Pilotherm Alarms and other Powersupply failures,
 Tune jumps (repaired...),
 SEDAC problems @ cryo modules
 52 MHz RF (PETRA), Erdschluss SK82 Ost, PETRA Kicker Problem,
 PIA Accumulation Problem, H1 Solenoid Problem**