Muon Collider Tests in the FEB U-Line

K. McDonald, 8/28/98

1. Initial Tests: 1998-99

   - A 'few' shifts; a few pulses/hour; 10^{13} p's @ 24 GeV.
   - Share neutrino blockhouse with E-938.
   - **Must focus down to 1 mm radius (rms).**

2. Later Tests: 2000-01

   - Move downstream to near Gate #5.
   - Add 20-T pulsed magnet, large 1.25-T solenoid, 70-MHz rf cavity, pion spectrometer w/2-T bent solenoid and TPC's.
   - Again, only a few pulses/hour.
   - Some running with **6 or 8 bunch extraction**; 10^{14} p's.
   - Some running with $\sigma_t = 2$ **ns**; 7 GeV OK.
   - At end, 3-4 weeks with **slow extracted beam**; 10^6 p's/pulse.

Layout of Later Muon Collider Targetry Studies