

# 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

