

Status of beam delivery to MTBF

- The MTest line has been operated with fast extracted beam in both of its modes:
 - 120 GeV protons with the collimator in
 - 38 GeV secondaries with collimator out
- SY120 set up time in the Main Control Room was on the order of half an hour. Conditions with varying number of turns and batches were tried successfully.
- Slow spill extraction studies were attempted:
 - Resonant oscillations were established
 - Septa were moved into the beam and slow spill losses were seen in the Main Injector
 - However, no beam made it into the first transfer line (P1)

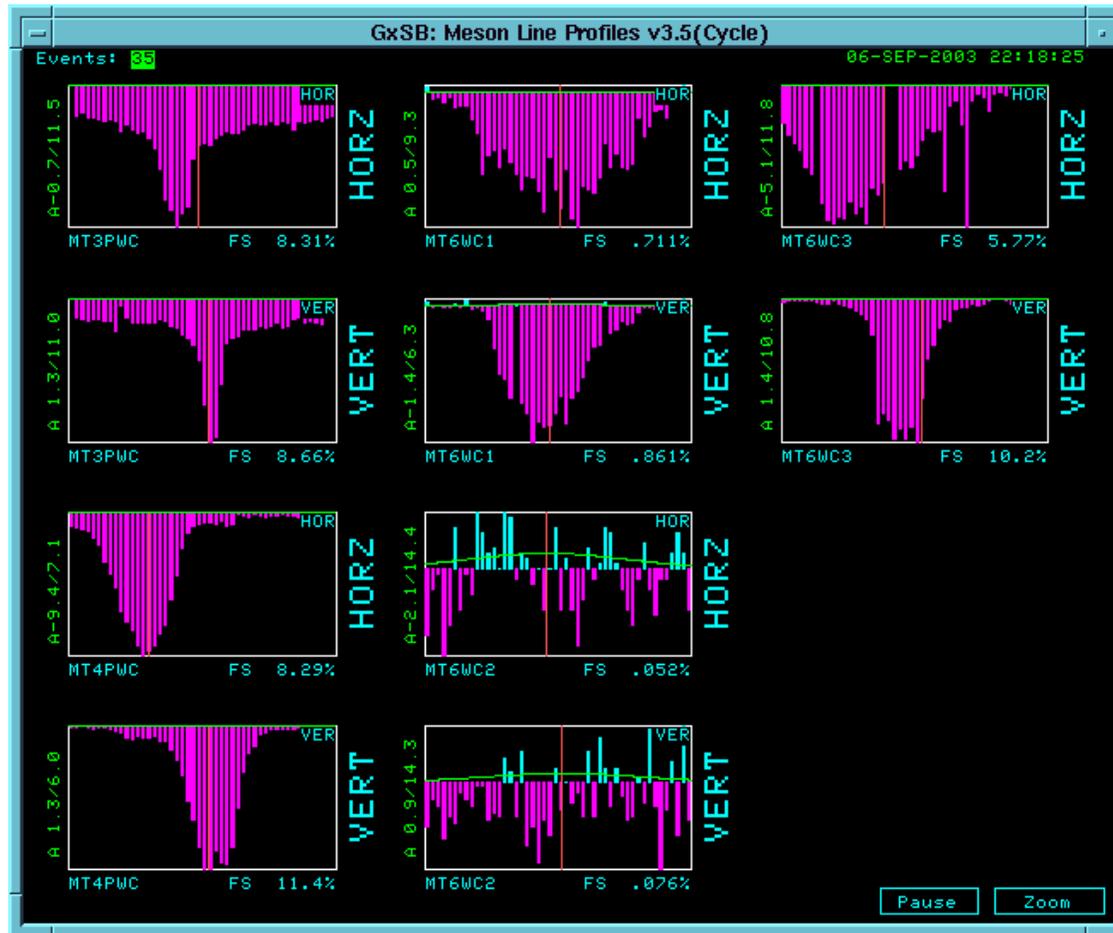
Status of MTBF experimental halls

- Kansas University people used MTBF as an experimental hall for the first time for their 'RICE' studies.
- ACNET readout of beam profiles were seen in three chambers
- Survey data was extrapolated from current positions to give beam heights
- Currently working on establishing a DAQ system, with trigger, to readout MWPC's, Cerenkovs and silicon

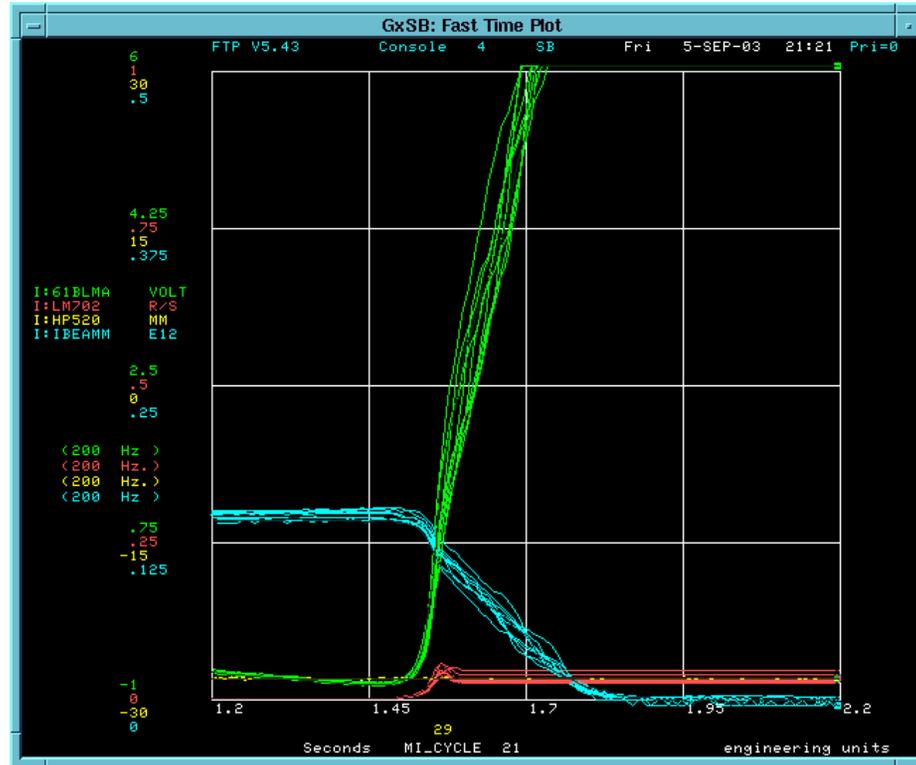
To Do List

- Establish slow spill in Main Injector
 - Downstream of P1 should follow from progress made in fast extraction studies
- Define tunes for some convenient set of momenta: 2,5,10,20,40,80,120
 - helps operators in MCR
- Finalize tracking and DAQ in MT6B
 - need to get both Cerenkovs working
 - need to fix gas system
- Understand properties of beam (size, position, composition, etc.) for each tune

SWIC profiles in the MT6 Hall



Slow Spill Extraction Attempt in MI



MTBF Tracking Detectors

One of the 3
MWPC stations



Silicon tracker goes here

Business end of
one of the 2
long beamline
Cerenkov
counters





DAQ will have
simple minimum
bias triggering



Gas system can
deliver gas from any
bottle in gas shed to
any of the 6 user
areas

User commissioning space



Covered area on pad next to experimental hall



Three locked rooms in Meson building for MTBF use