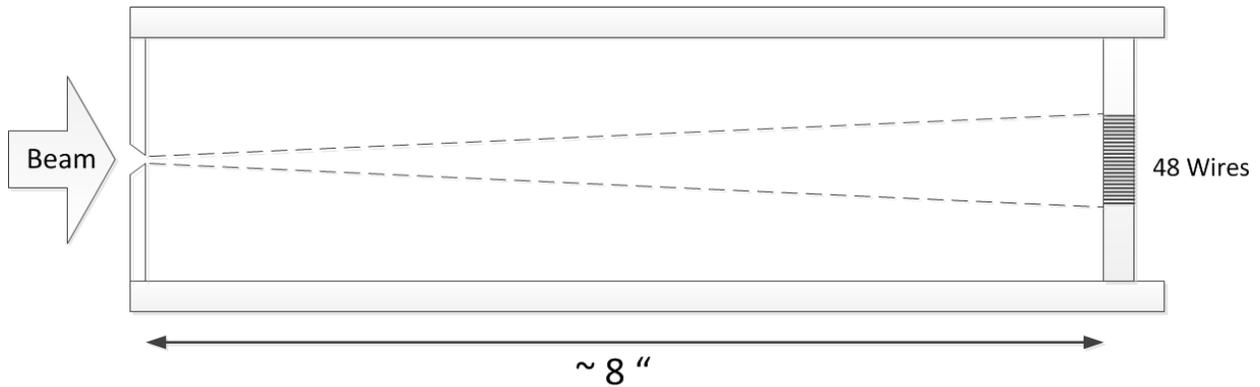


Transverse Emittance Monitor



Transverse emittance measurement based on single slit followed by multi-wires.

- Slit/multi-wire assembly is scanned across beam to build 2-D phase space.
- Primary measurement of ~90% beam
 - Not intended for halo
- Required: angular scan range of $\sim \pm 12$ mrad with ~ 0.5 mrad resolution
 - 48 wires at 4 mil spacing, 8" behind slit
- Issues/Risks
 - Damage to entrance slits even in pulsed mode
 - Cross-talk between wires
 - Calibration of 48 separate readout channels