Beam scattering in Fast Chamber

GEANT results for rms size and divergence of narrow parallel (pencil) muon beams of different momenta, passing through

- 76.2 μ mylar
- 10 cm He
- fast chamber with
  - ▷ 30 mm CF_4/isobutane (80/20)
  - ▷ 6 mylar foils, each 6.35 μ thickness
  - ▷ 2 anode planes (x and y), each of 12.7 μ diameter W wires, 0.762 mm spacing
- 50 cm He
- 1.6 mm scintillator (would be second fast chamber in beam tests)

Momentum ($\times 29.79$ MeV/c)	1.0	2.0	3.0
into FC			
x (cm, rms)	0.256	0.07	0.04
dx (mr, rms)	26.5	7.4	4.1
exiting FC			
x (cm, rms)	0.332	0.09	0.05
dx (mr, rms)	47.4	13.0	6.5
at 50 cm from FC			
x (cm, rms)	2.49	0.70	0.37
dx (mr, rms)	48.1	13.2	6.8