

Energy Spectra Comparison

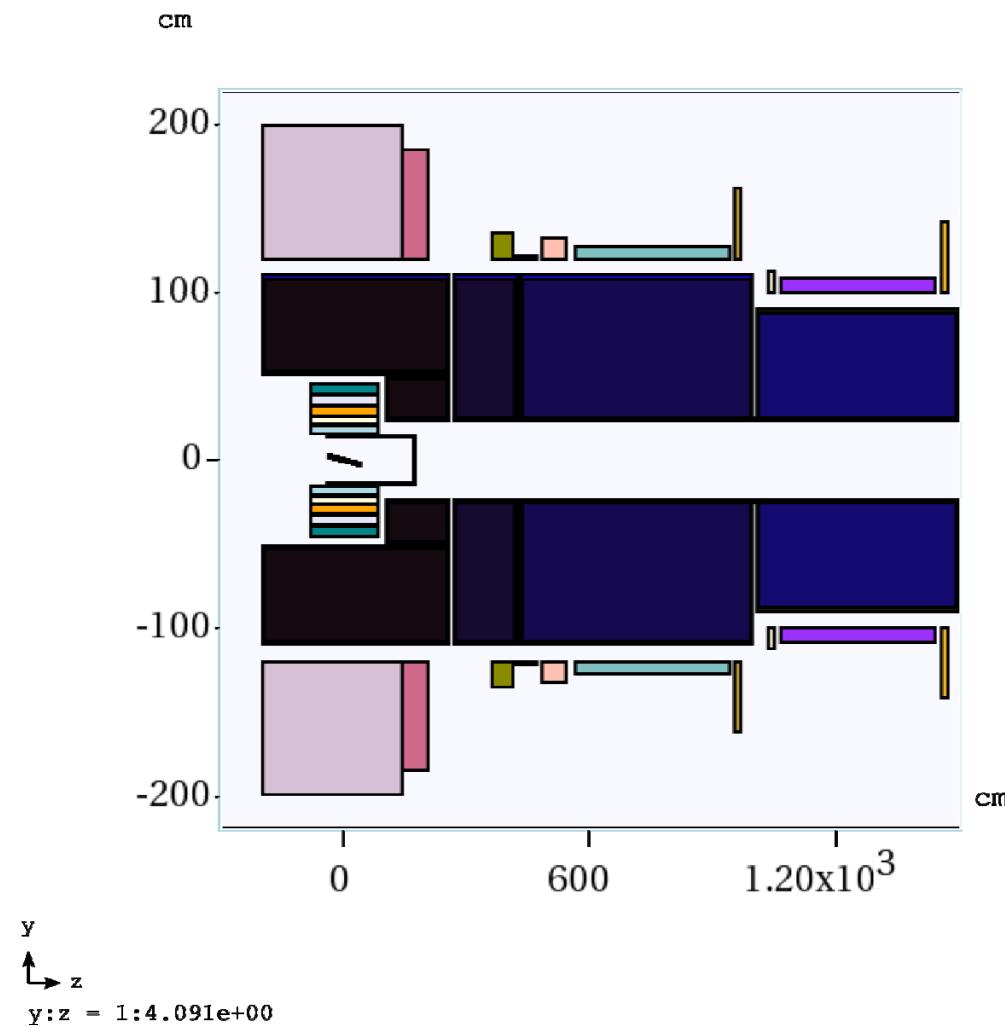
ROOT Based and MARS Non Standard Geometry Setting

X. Ding

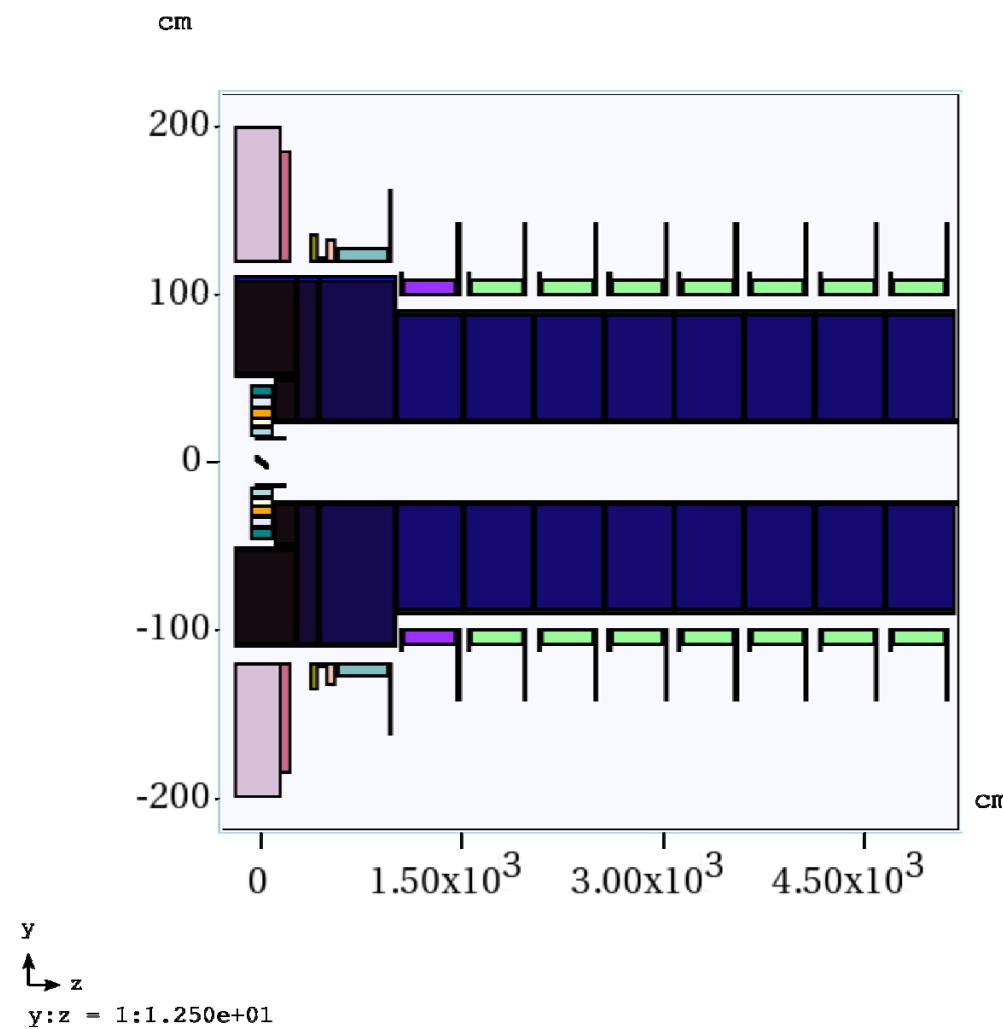
AAG meeting, BNL

July 9, 2015

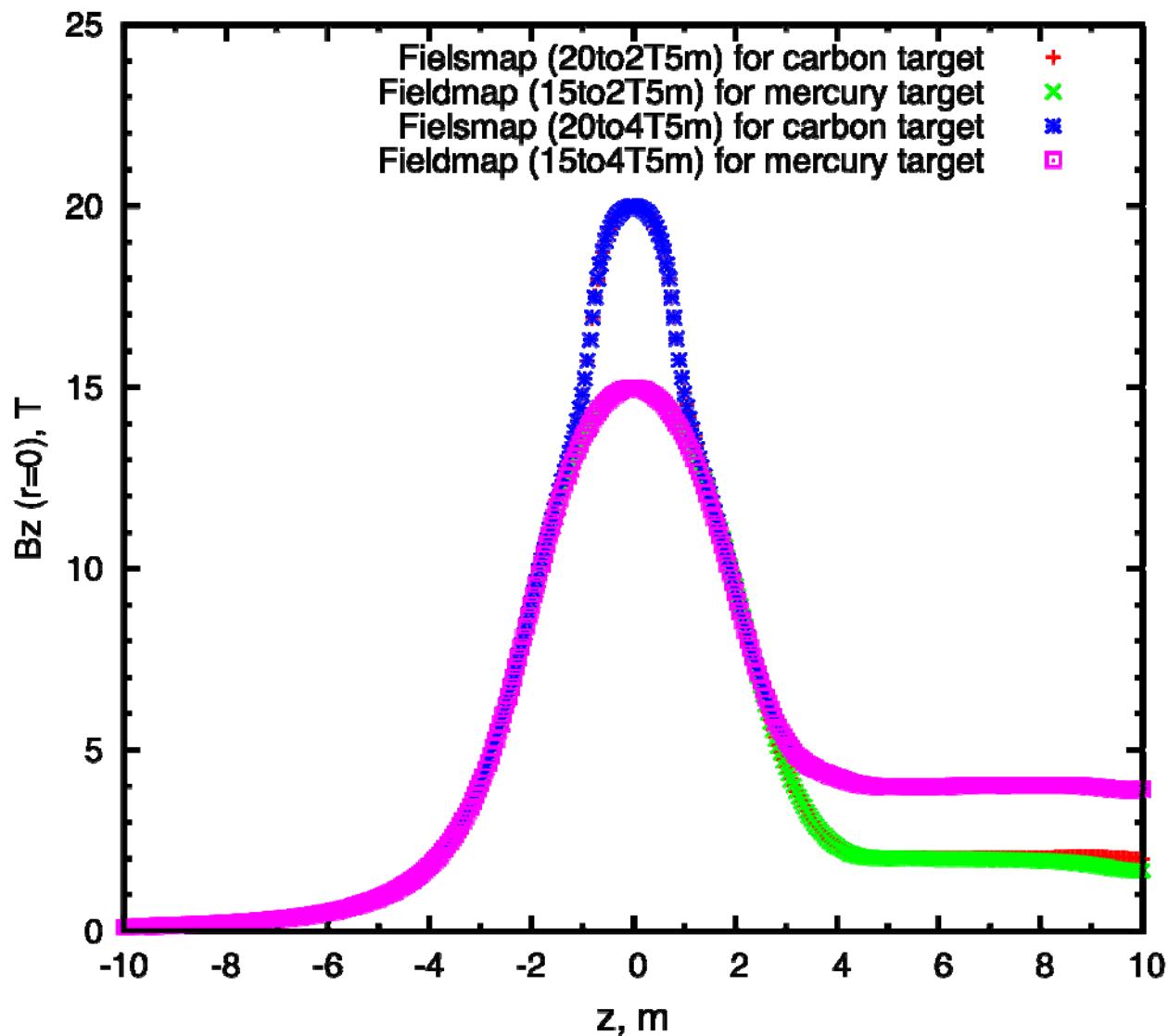
20to4T5m Configuration($z_{\max} = 15$ m)



20to4T5m Configuration($z_{\max} = 52$ m)



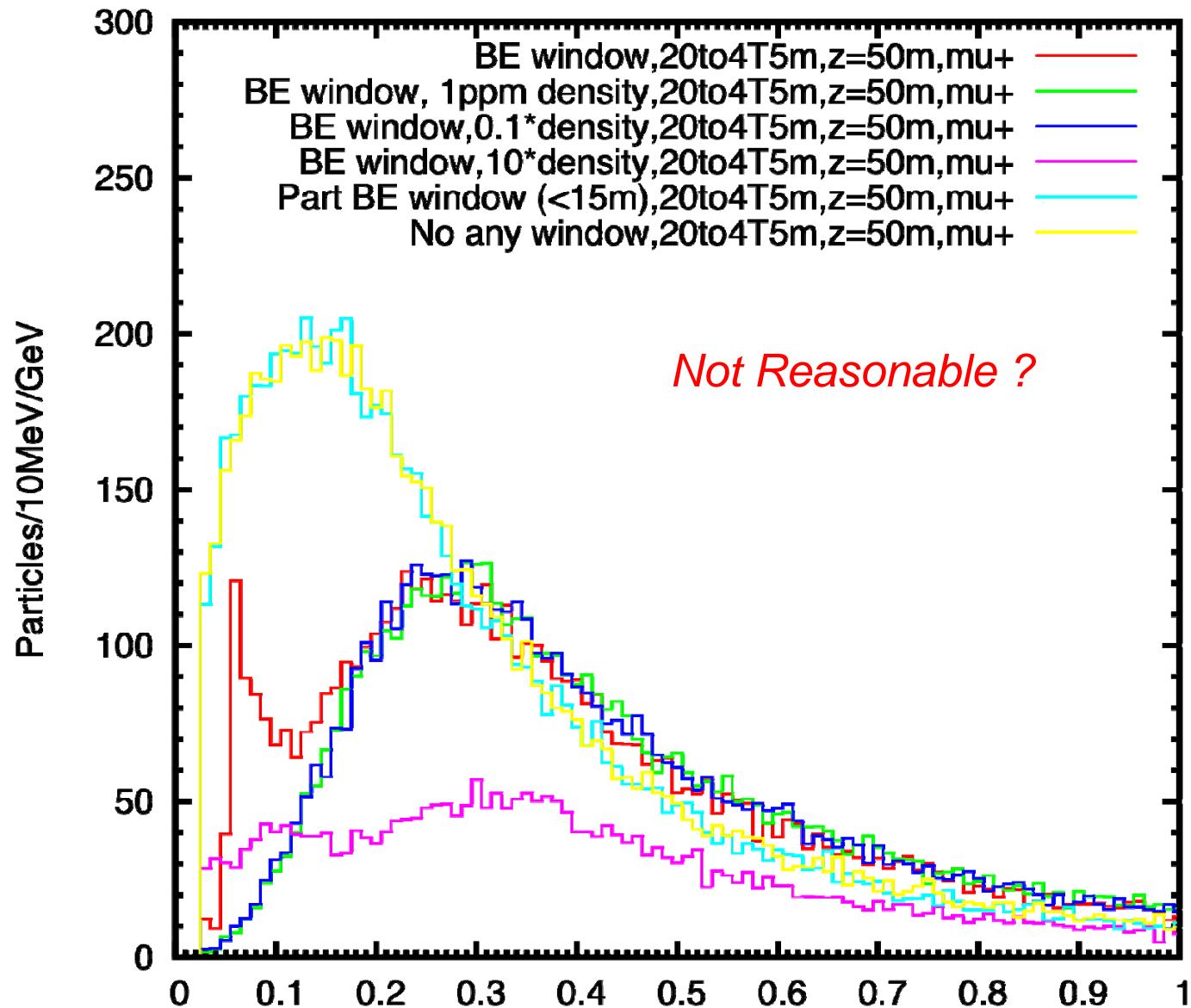
Fieldmap on SC axis



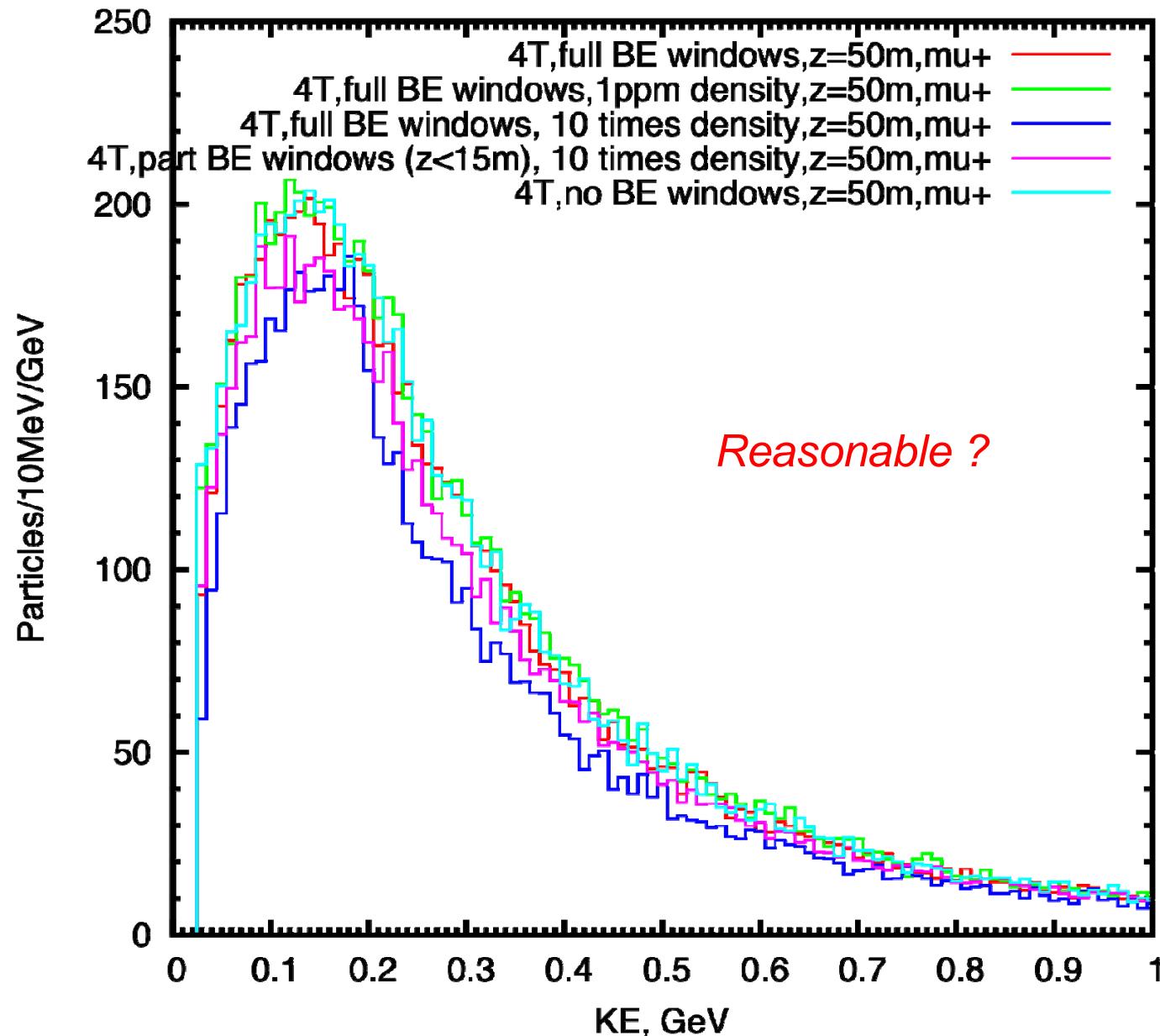
Method

- Generate simple Gaussian beam with zero emittance (launching at $z = -100$ cm) by MARS.INP setting and proceed through 20to2T5m and 20to4T5m configuration and transport channel;
- Collect beam at $z = 50$ m and extract the positive muon

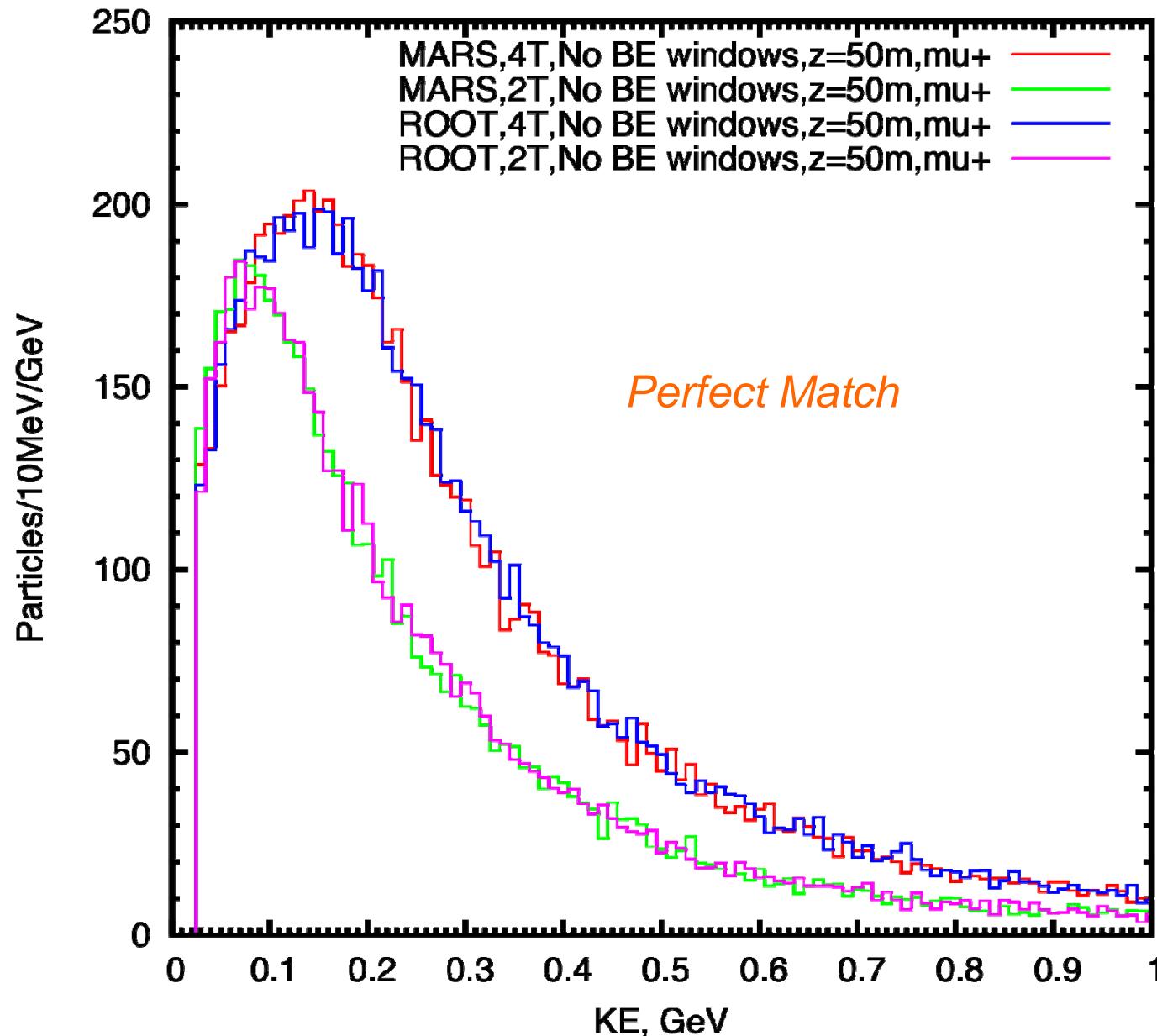
ROOT Setting with Be Windows (mu⁺)



MARS Setting with Be Windows (μ^+)



Setting without BE windows (μ^+)



Setting with BE windows (μ^+)

