

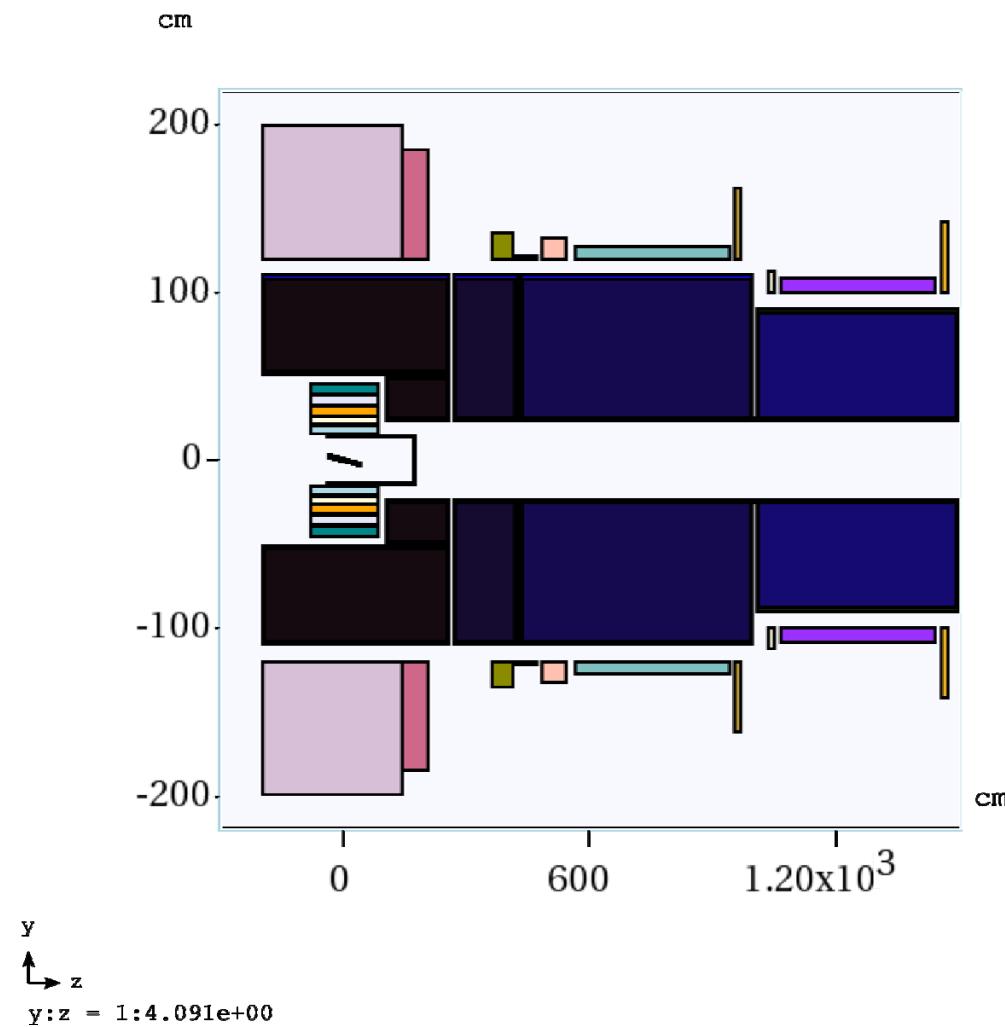
Test of Muon Beam in 20to4T5m Transport Channel

X. Ding

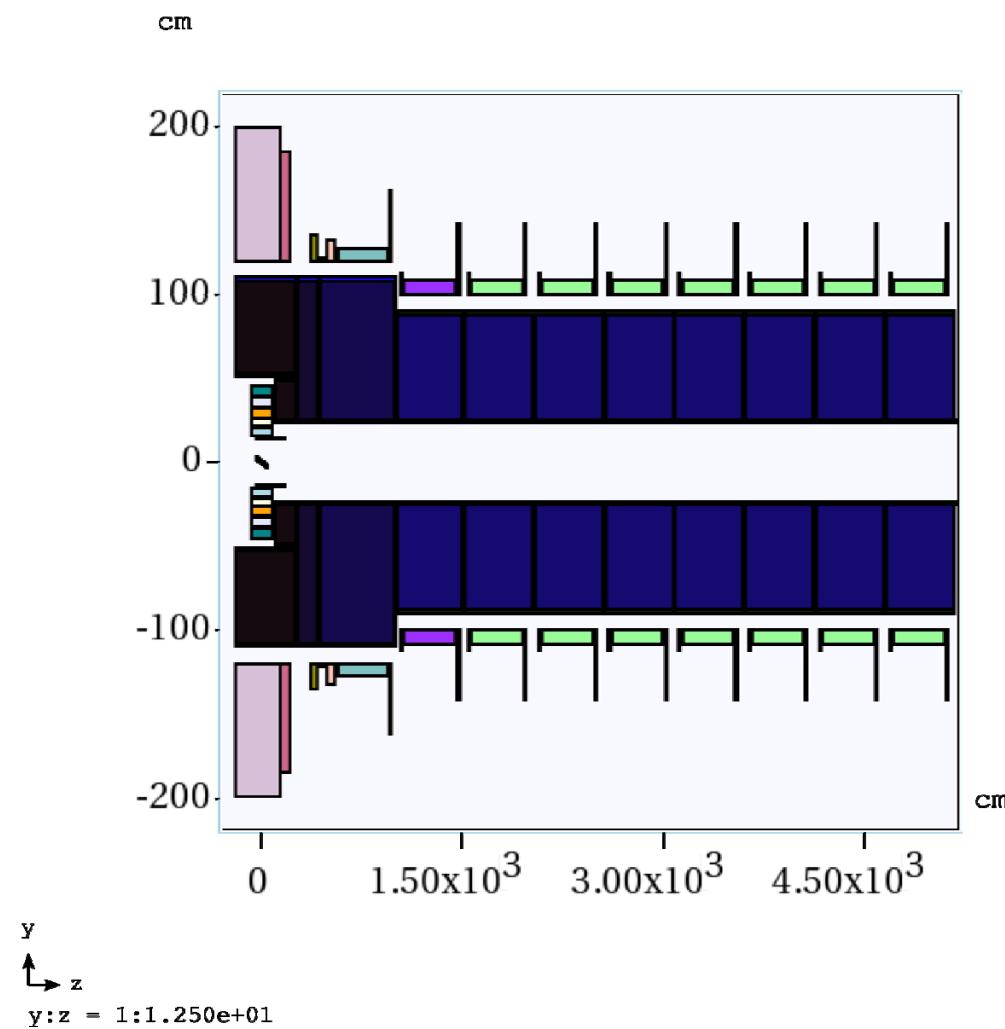
AAG meeting, BNL

June 25, 2015

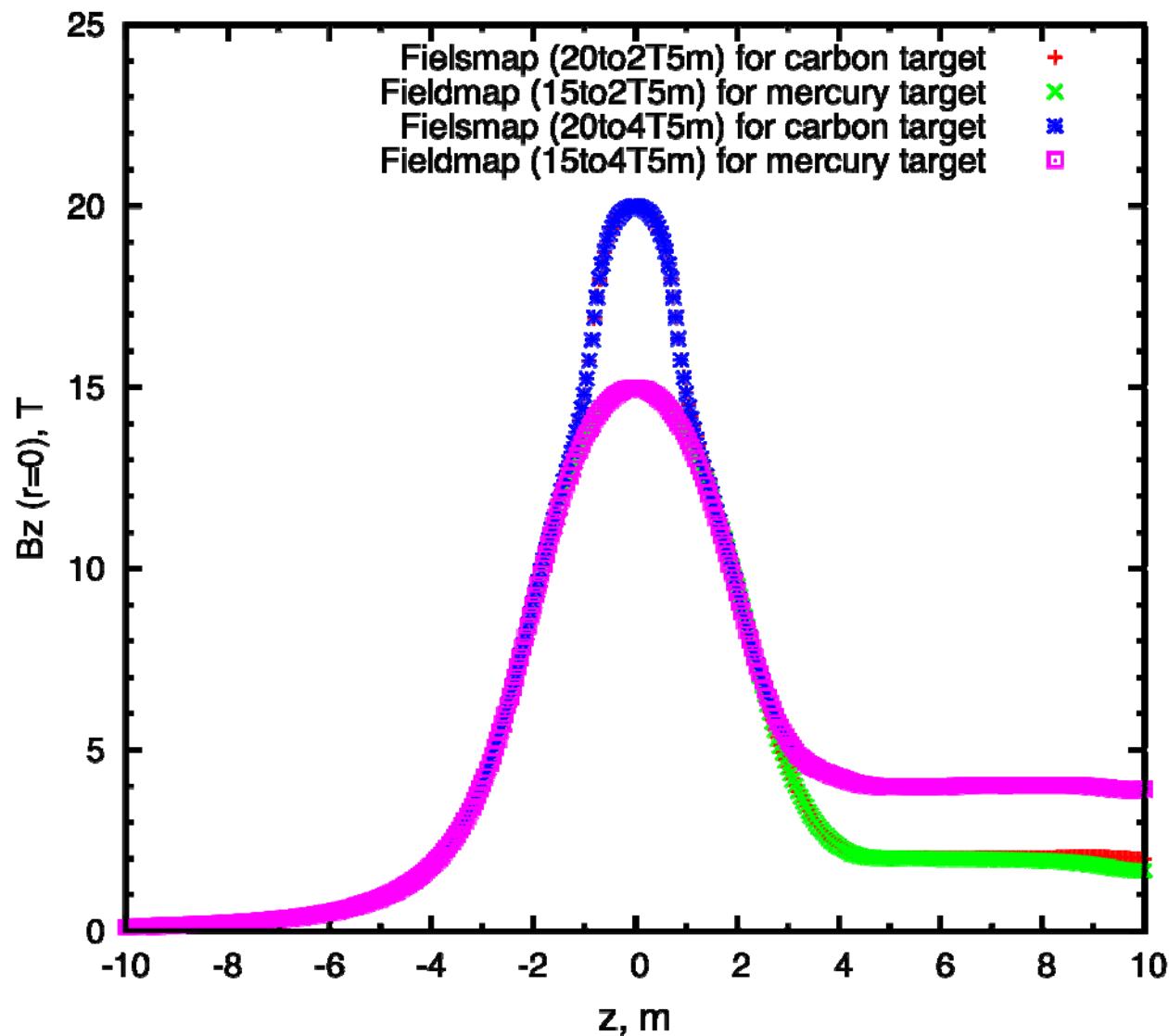
20to4T5m Configuration($z_{\max} = 15$ m)



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



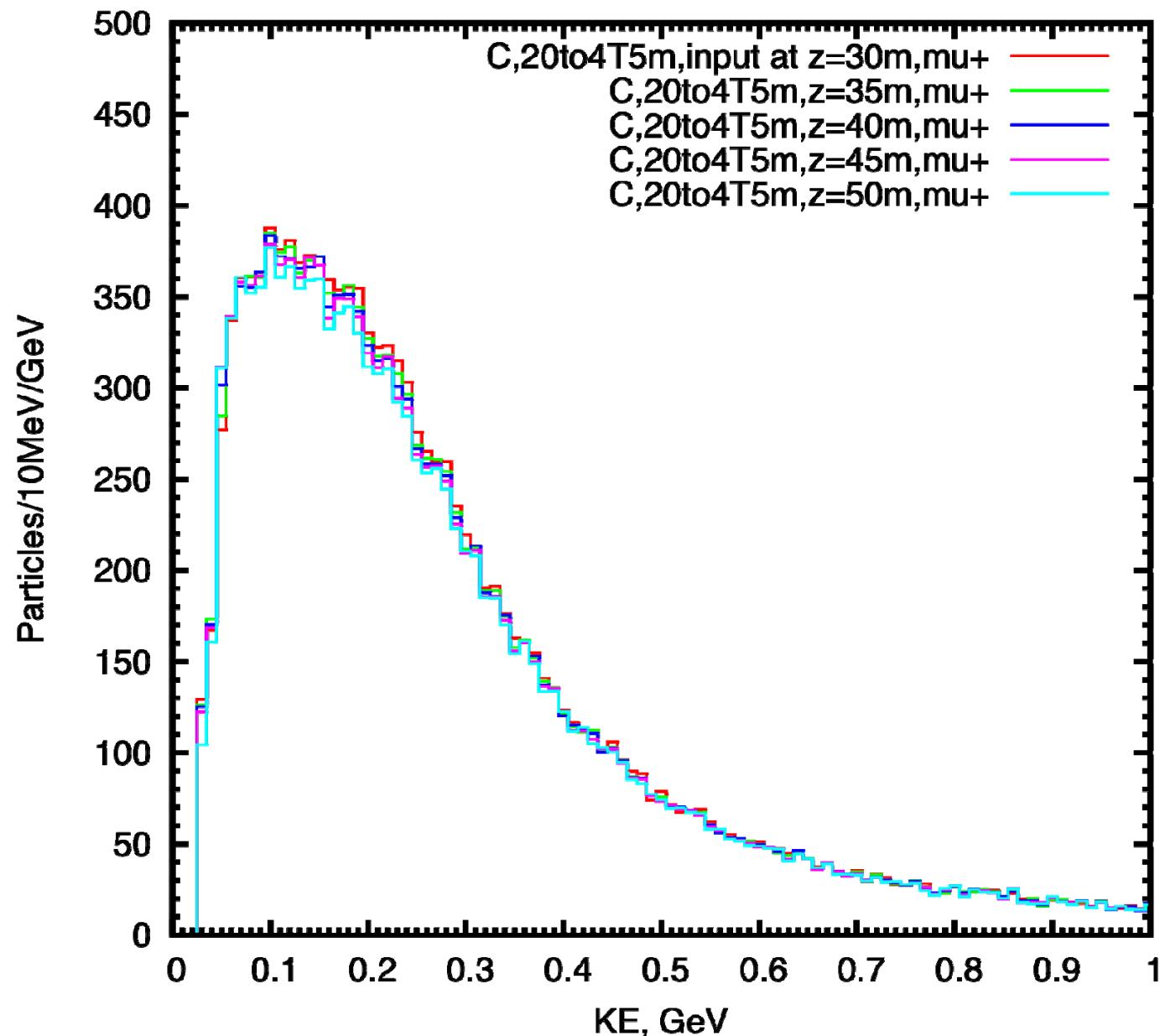
Fieldmap on SC axis



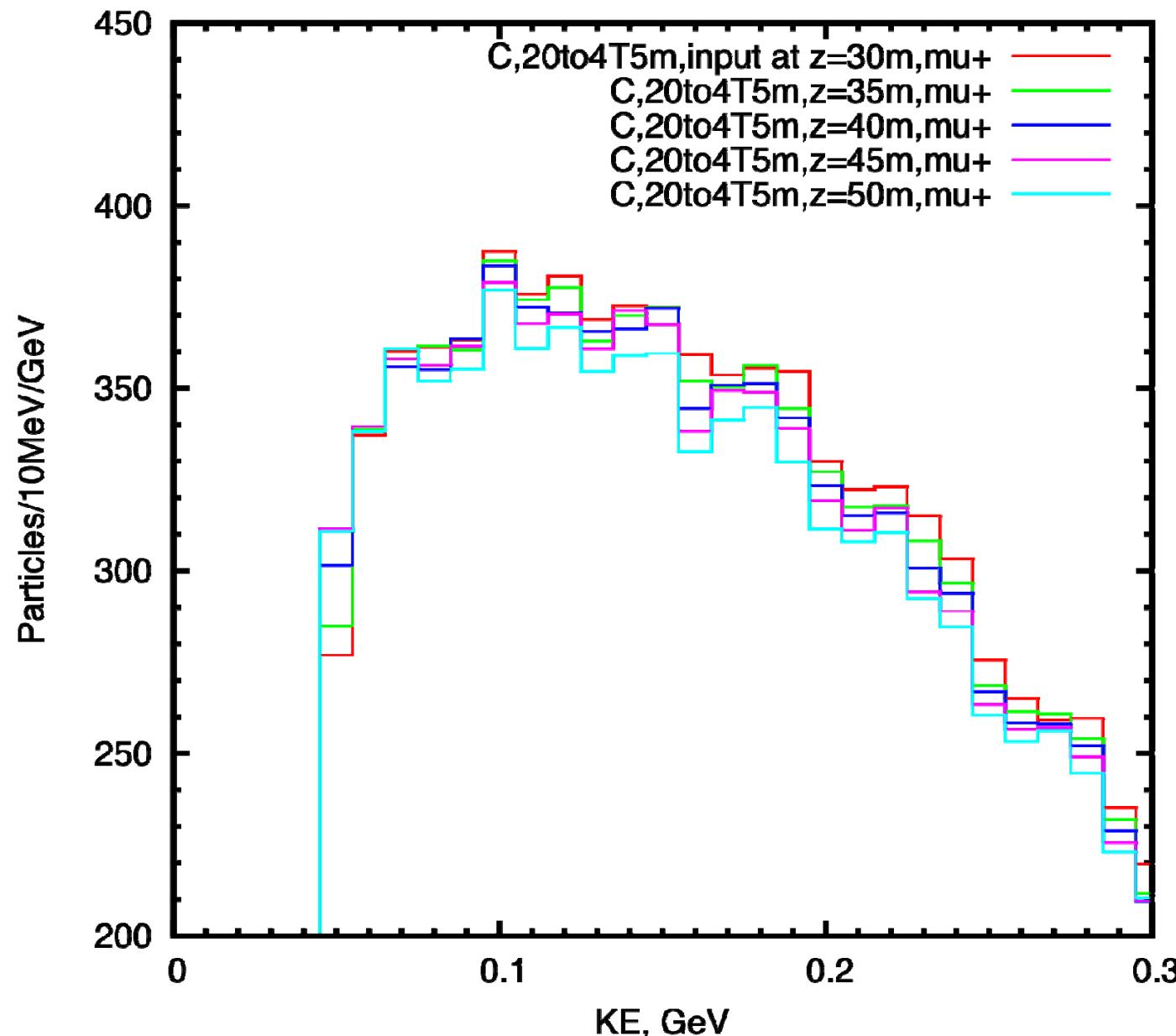
Method

- Launch beam at $z = -100$ cm in the 20to4T5m configuration and transport channel;
- Collect beam at $z = 30$ m and extract the positive muon;
- Launch beam with extracted positive muon above at $z = 30$ m in the same 20to4T5m configuration and transport channel;
- Collect positive muon beam at $z = 35, 40, 45, 50$ m and plot.

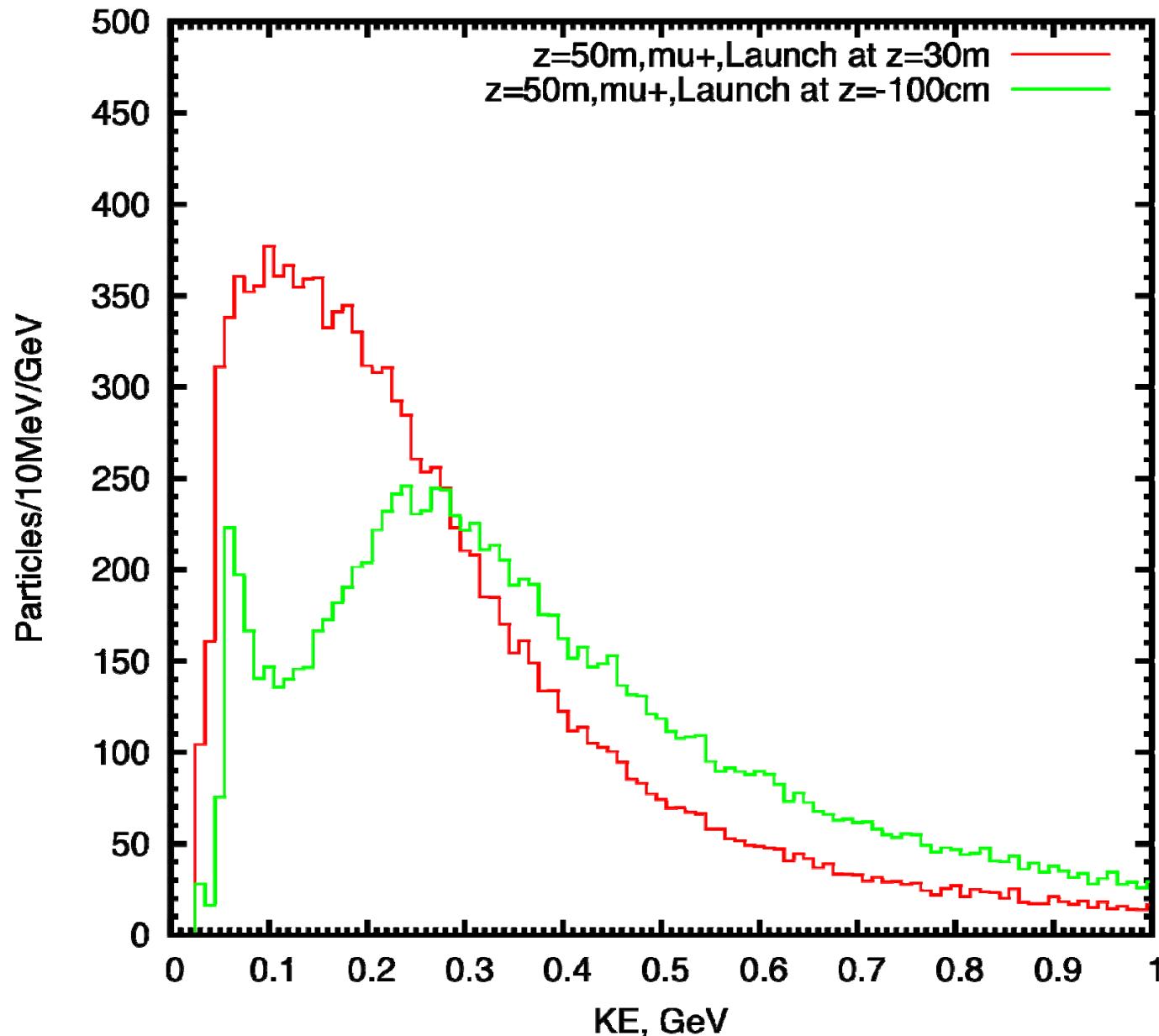
Energy Spectra (μ^+)



Zoom of Energy Spectra (μ^+)



Energy Spectra Comparison for Launching ($z = 50$ m)



Effect of Be Window Thickness

