

Global Track Analysis and Solenoid Alignment

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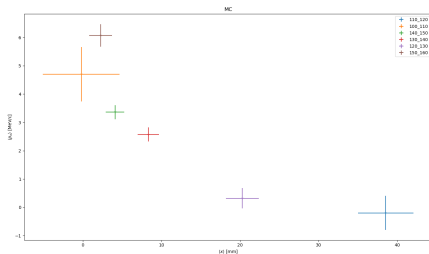
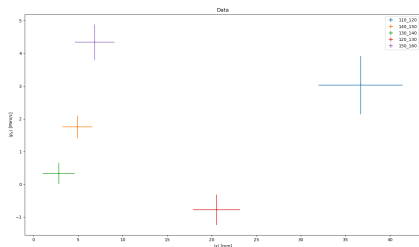
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March 8, 2019

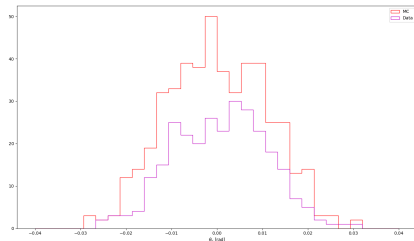
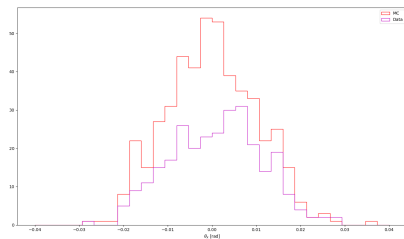
SSD Alignment

Look for dipole effect created by tilted/offset SSD. Plot $\langle x \rangle$ vs $\langle p_x \rangle$ and $\langle y \rangle$ vs $\langle p_y \rangle$ for different ranges of p_z – 10 MeV/c ‘bins’. Run 10052 data and MC – 140 MeV/c beam $\epsilon = 10$ mm.



SSD Alignment

Work out solenoid tilt using Chris H's method – Fit straight lines to low p_{\perp} tracks (< 10 MeV/c) and make a χ^2_{ndf} cut (< 30.0).



Further Work

Try my fields with simulation – need to tune config file so particles actually make it through!

Look at other runs data/MC check if they agree.

When simulation is working properly, tilt/offset SSD to observe the effect on plots.