

Delta Scan

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Run Information

Run#	E(GeV)	Target	theta	P0(GeV)
730	2.222	C	15.5	2.160
731	2.222	C	15.5	2.030
739	2.222	C	15.5	1.909
740	2.222	C	15.5	1.794
747	2.222	C	15.5	1.686
748	2.222	C	15.5	1.585
755	2.222	C	15.5	1.490
756	2.222	C	15.5	1.401
763	2.222	C	15.5	1.317

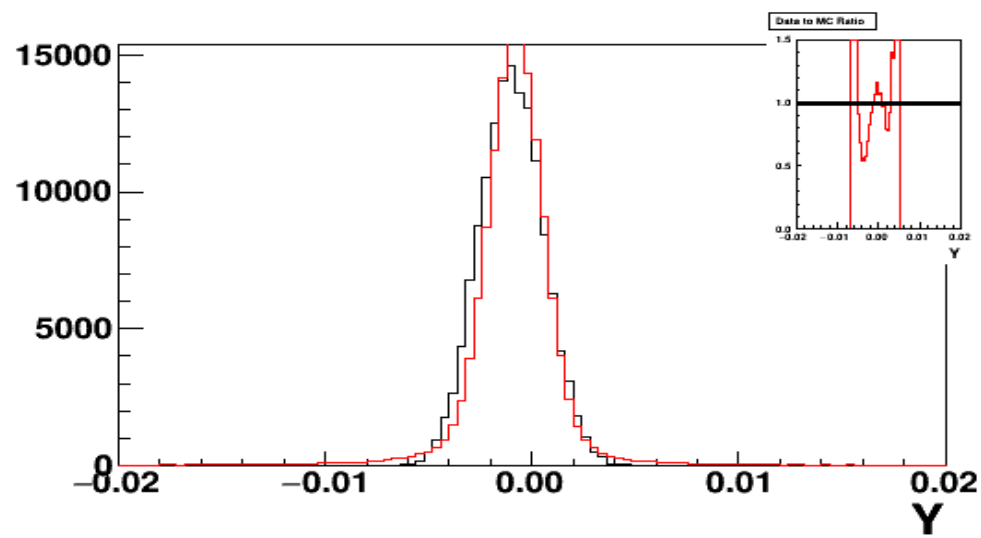
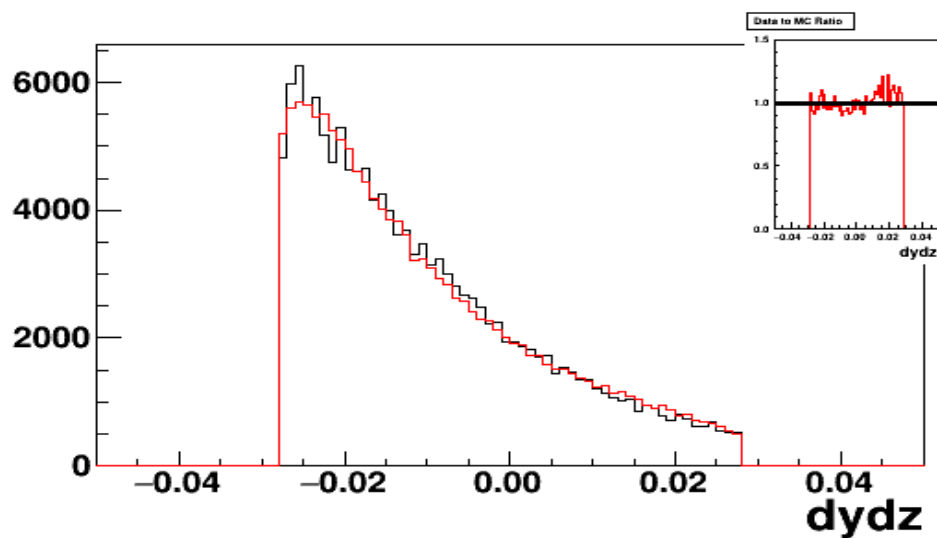
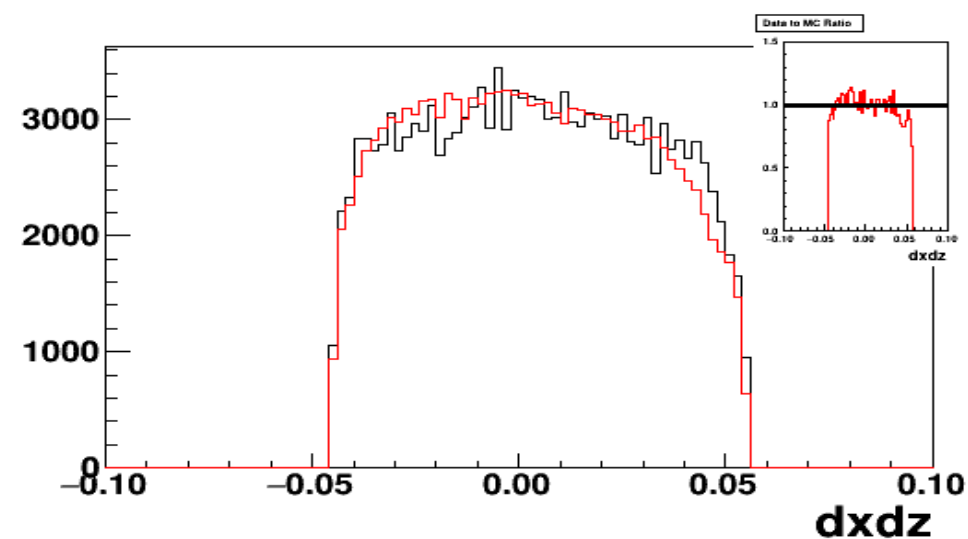
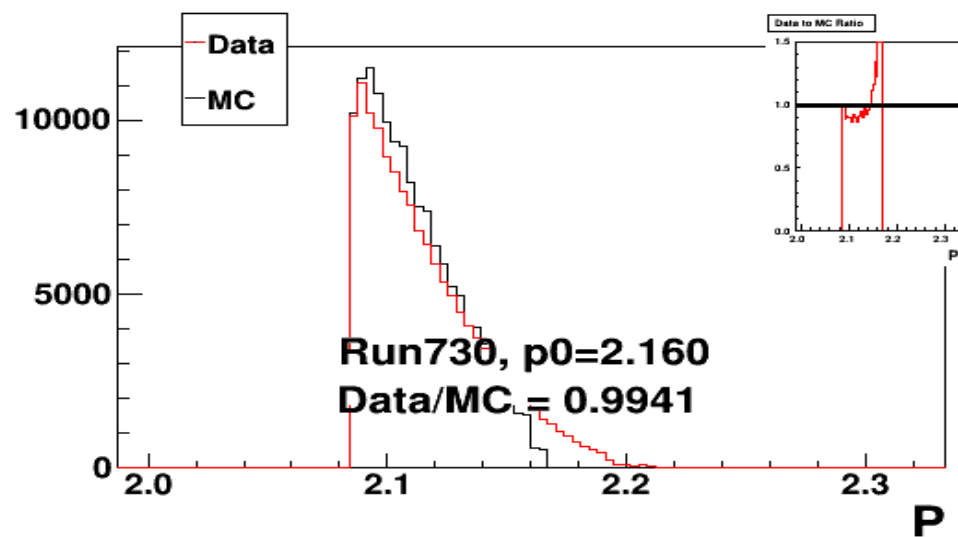
Input file for MC simulation

- Thickness of target 0.075cm
- Raster half-width x 0.14cm
- Raster half-width y 0.18cm
- Beam x offset 0.00802cm
- Beam y offset 0.098cm
- Target z offset 0
- Spectrometer x offset 0.122cm
- Spectrometer y offset 0.098cm

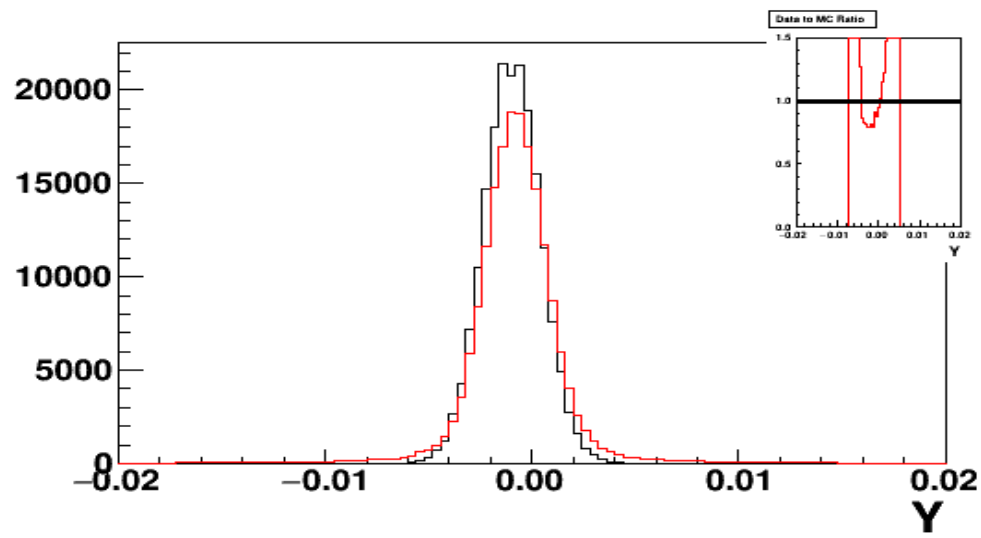
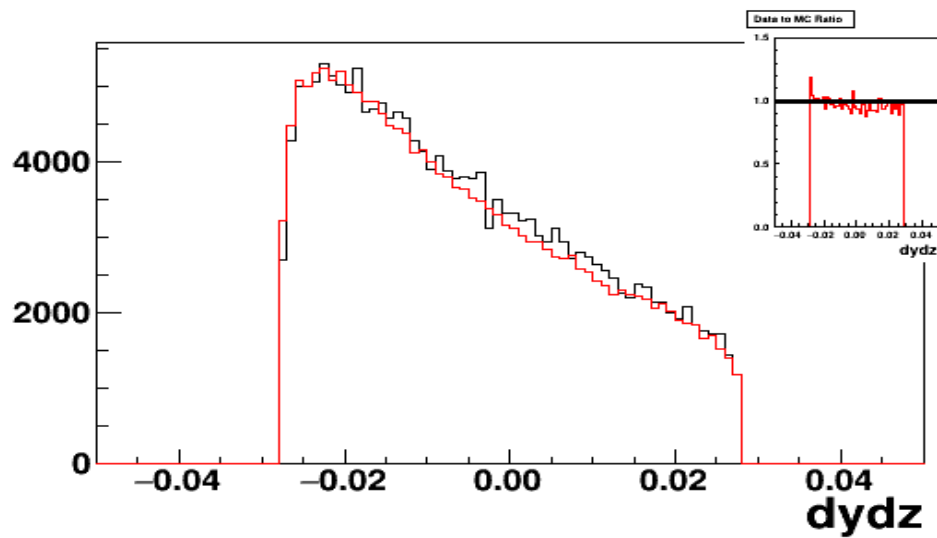
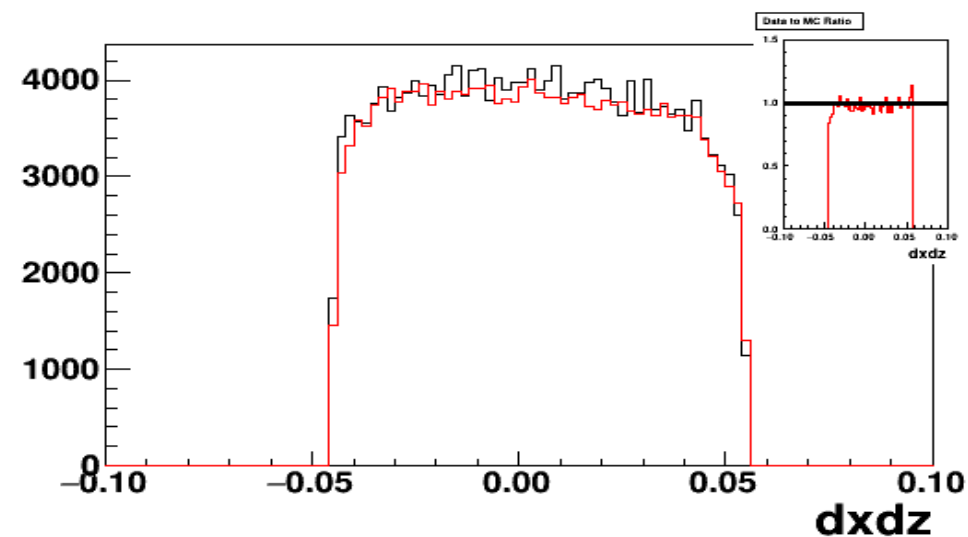
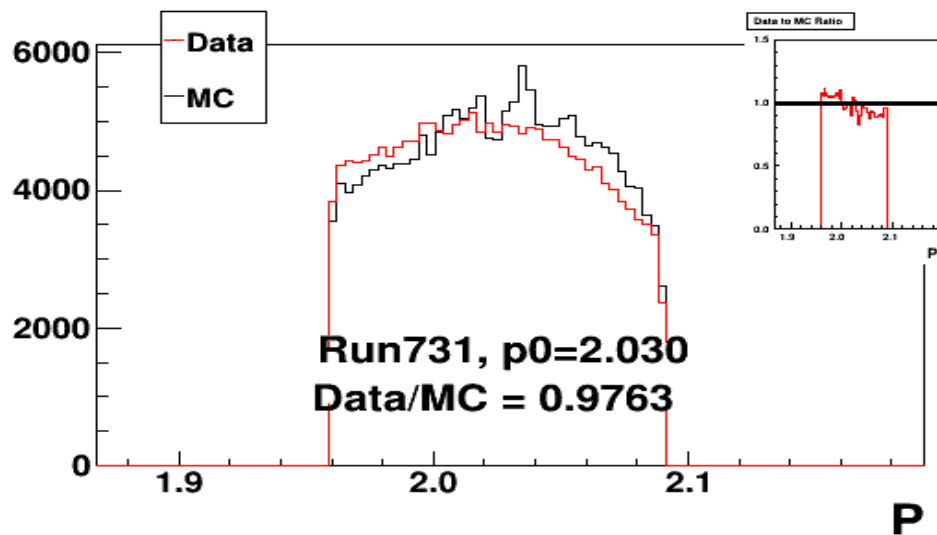
Cuts applied on data

- Tracking # ==1
- PID cuts:
 - cer >500
 - (ps+sh)/p0 > 0.8
- Acceptance cuts:
 - $-3.5\% < dp/p < 3\%$
 - $-45 \text{ mrad} < \text{theta} < 55 \text{ mrad}$
 - $-28 \text{ mrad} < \text{phi} < 28 \text{ mrad}$
- Manually Shift tg_y to the left for 0.121cm
- Same Acceptance cuts were applied on simulation

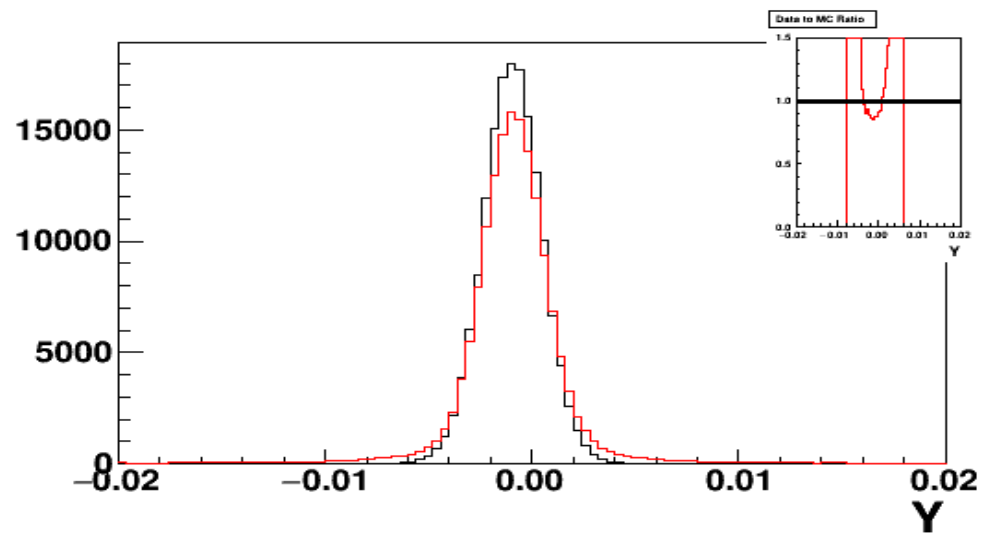
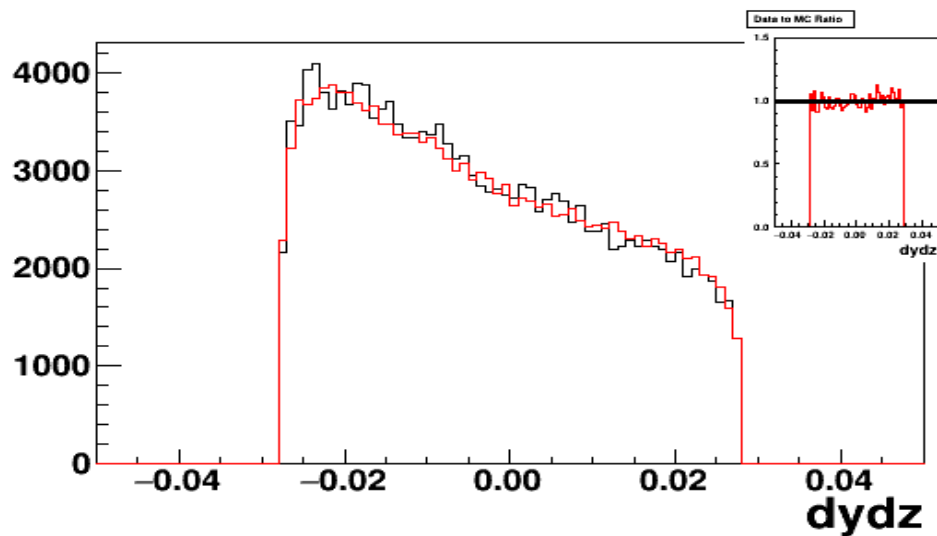
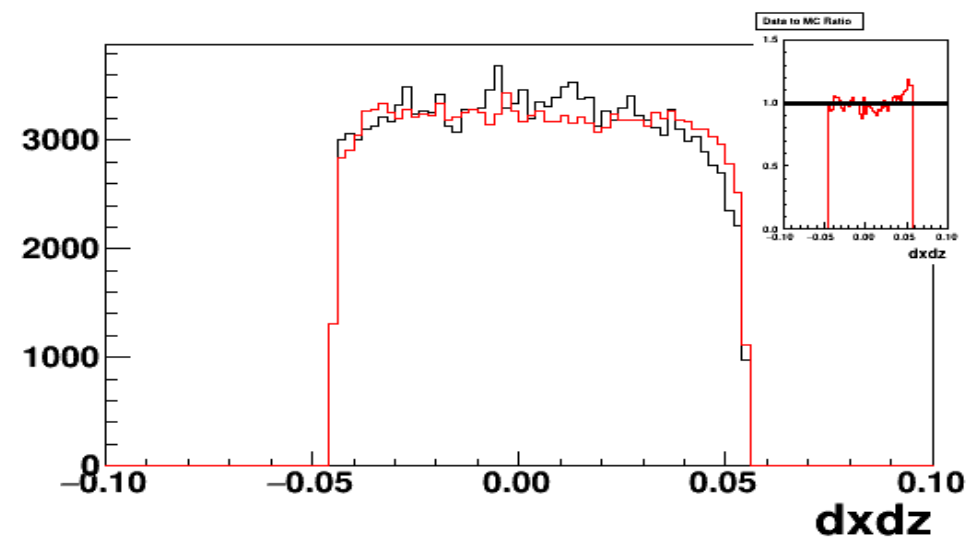
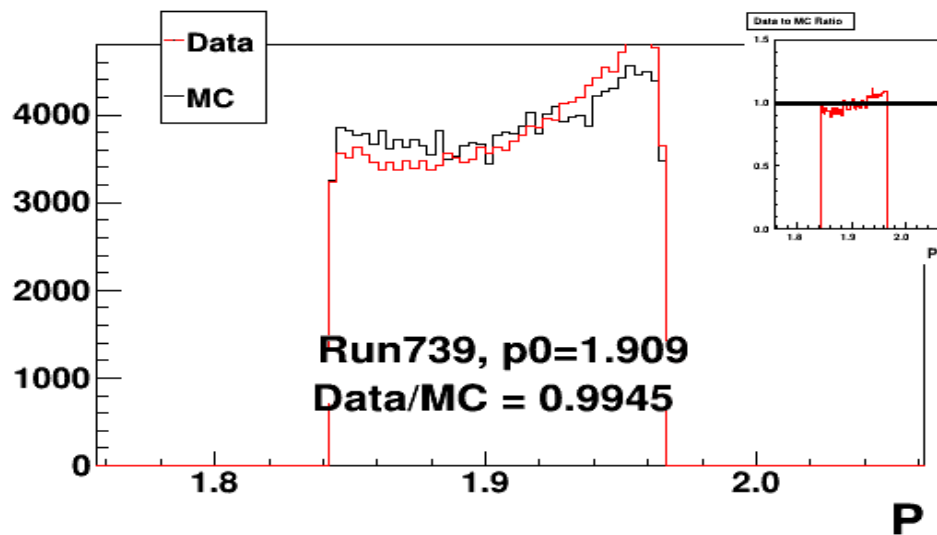
Target comparison



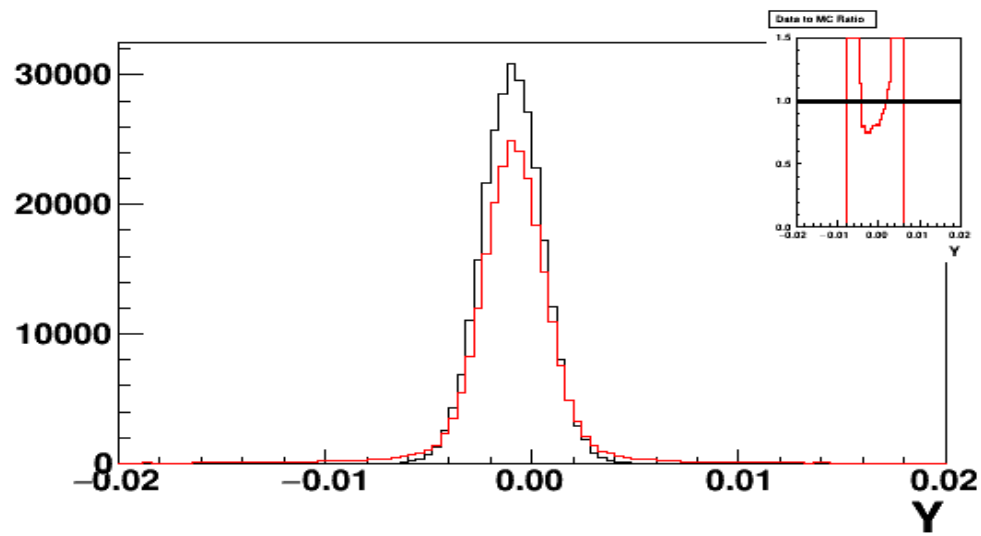
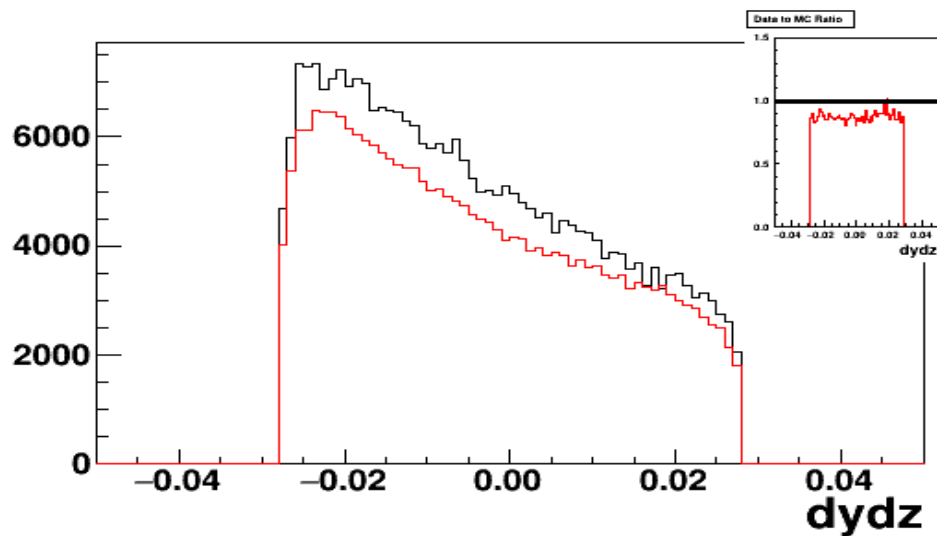
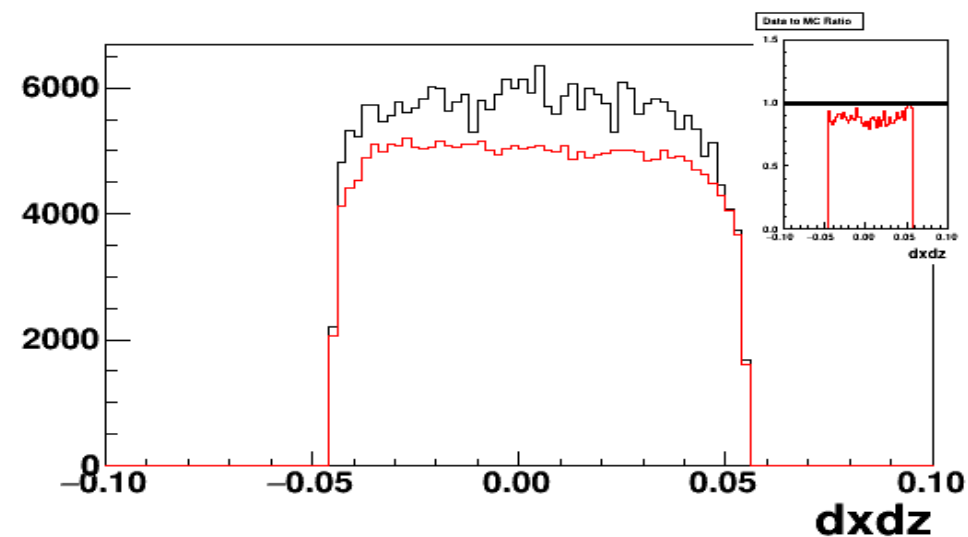
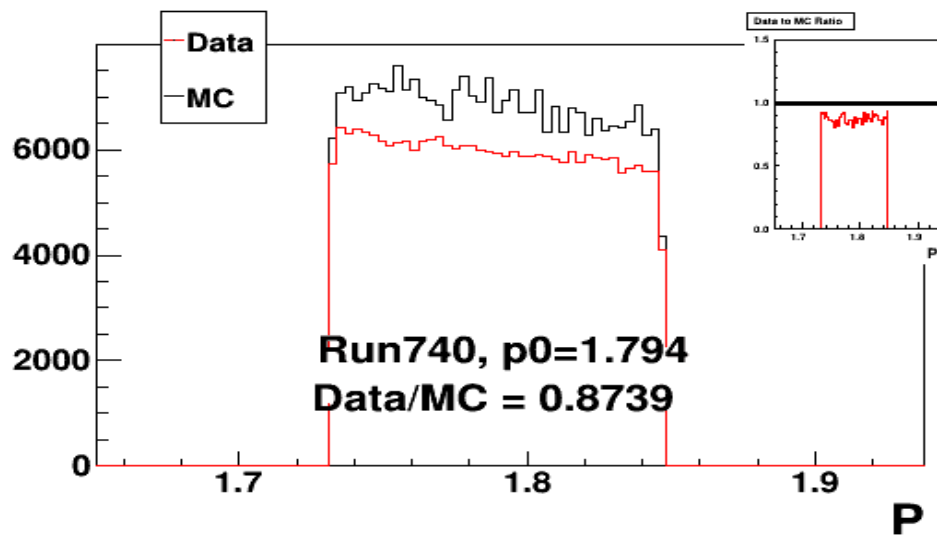
Target comparison



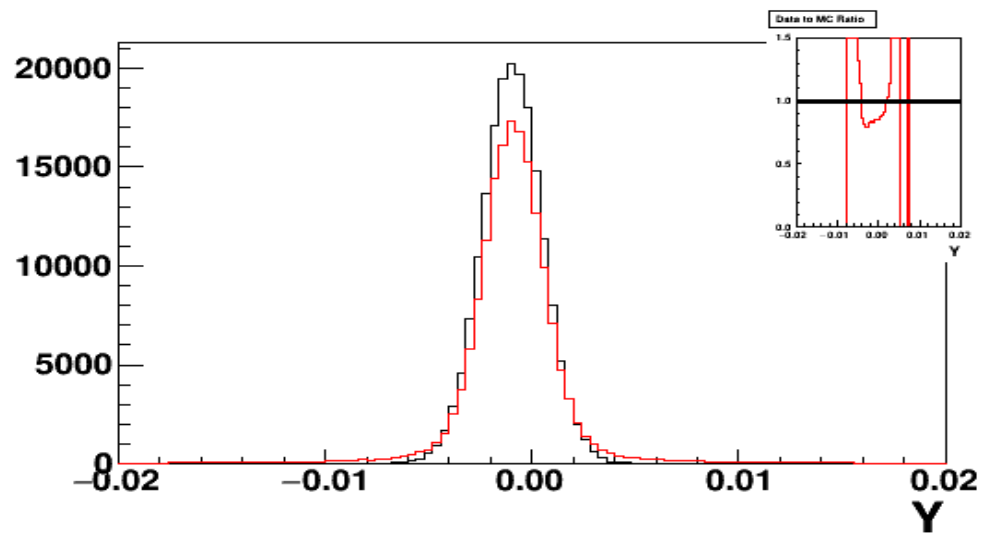
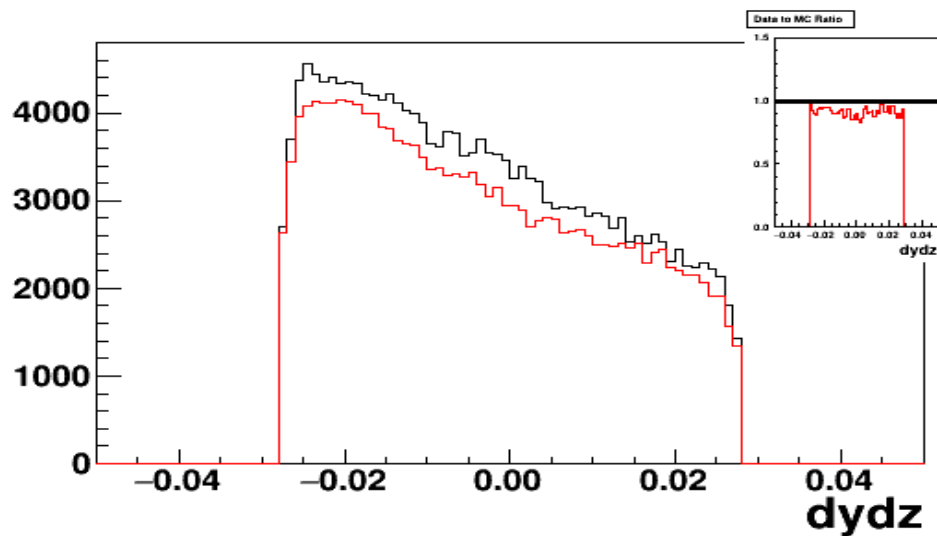
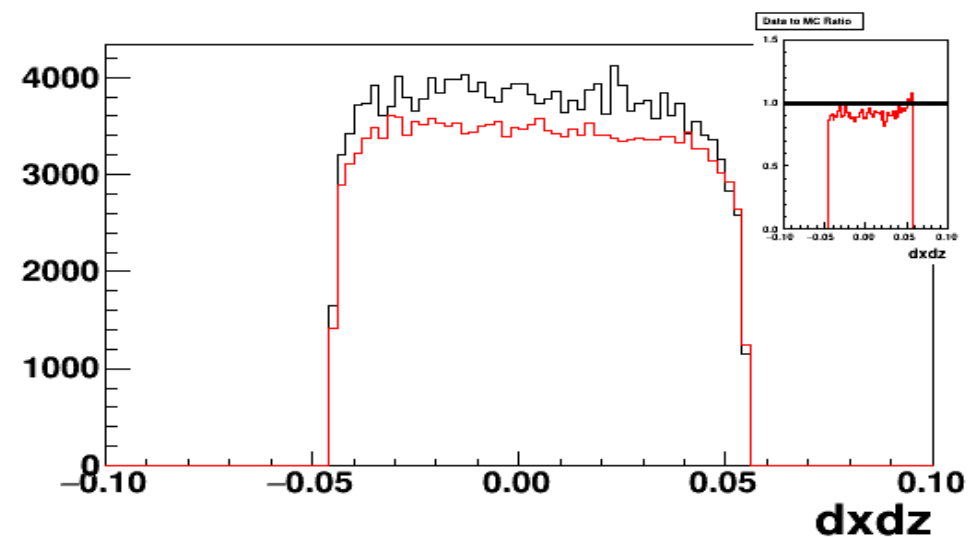
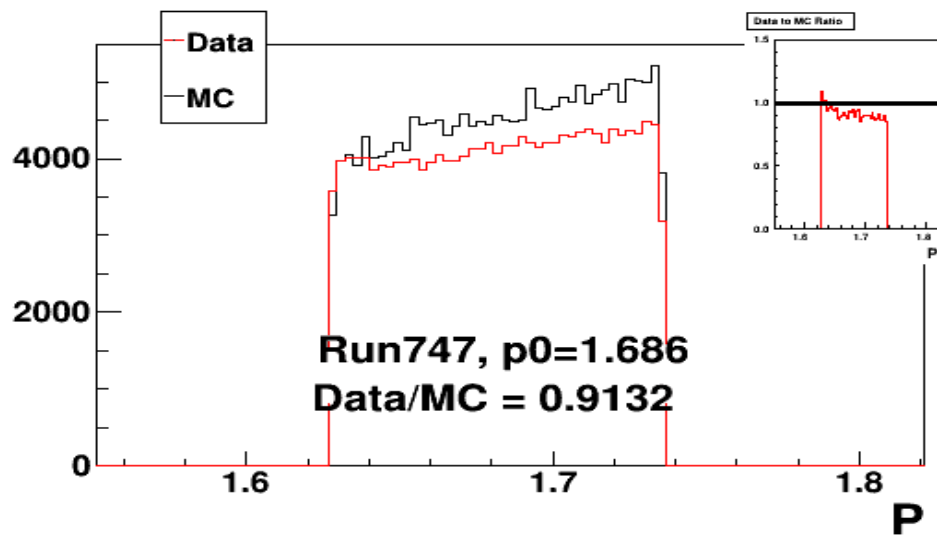
Target comparison



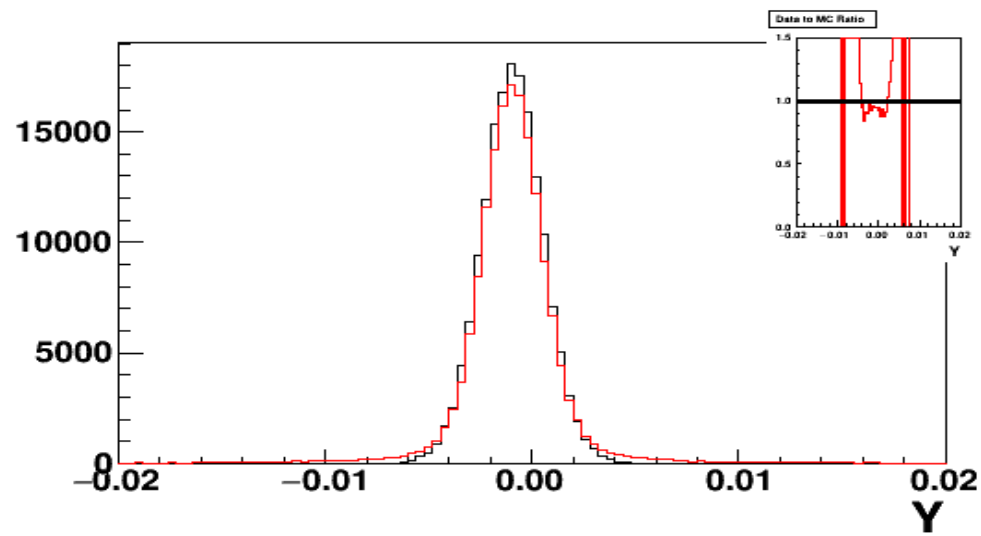
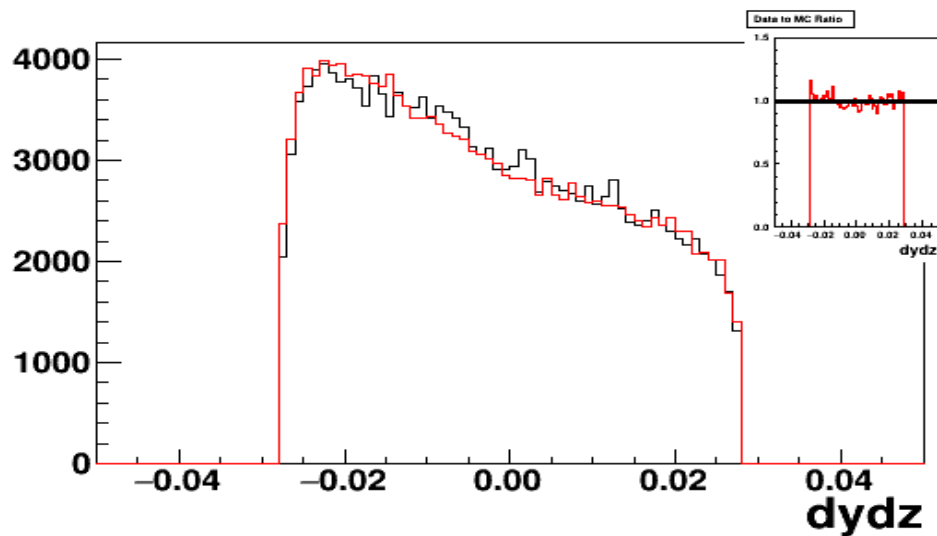
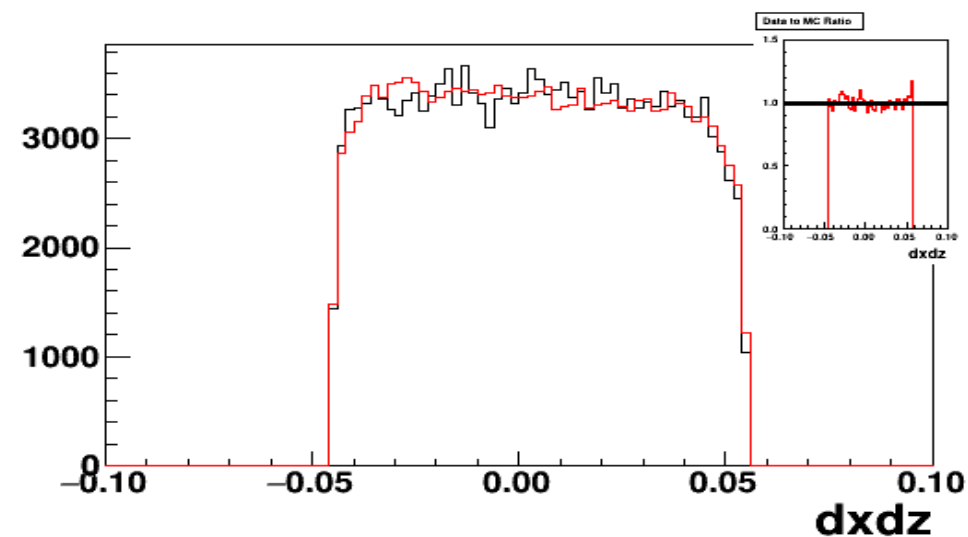
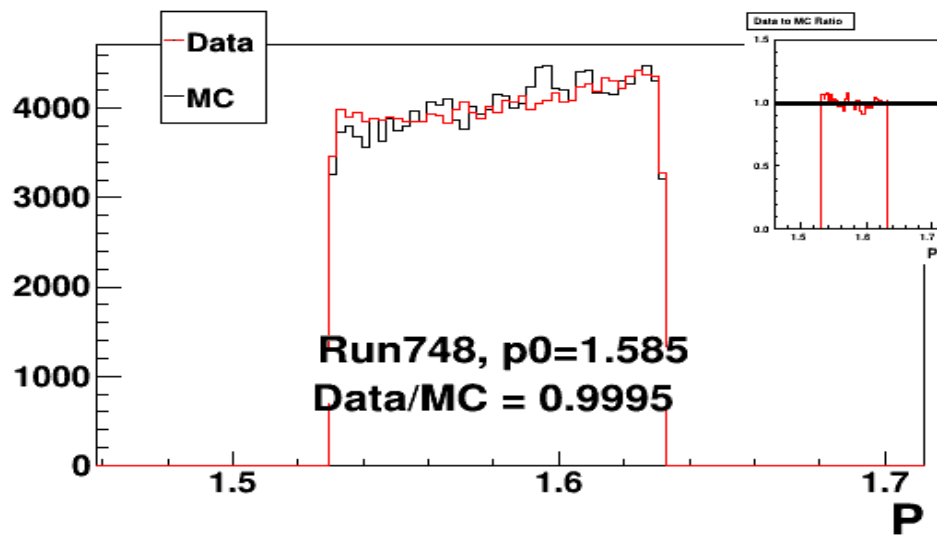
Target comparison



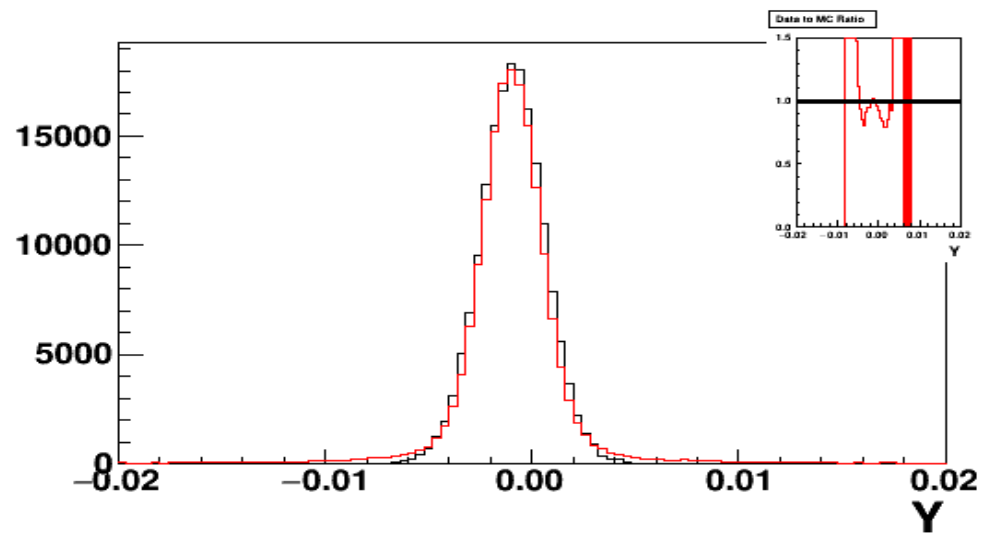
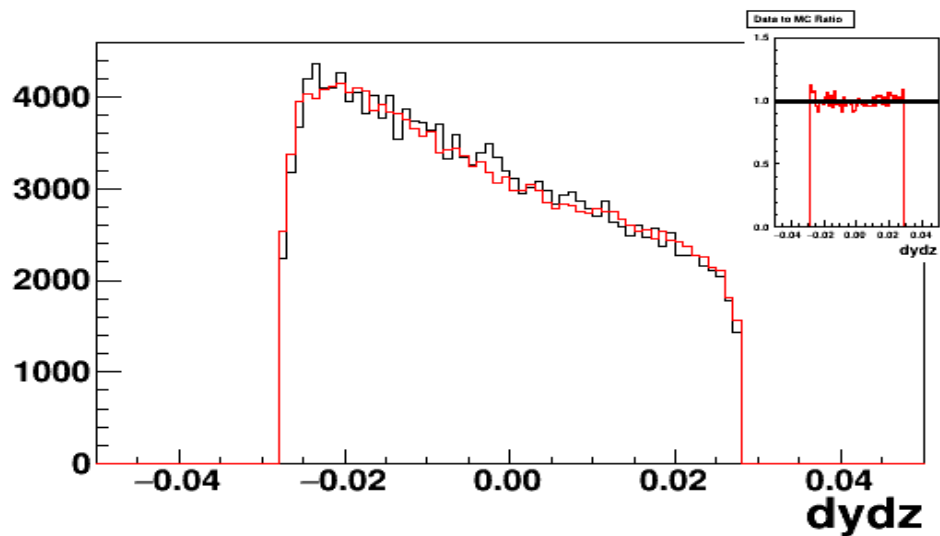
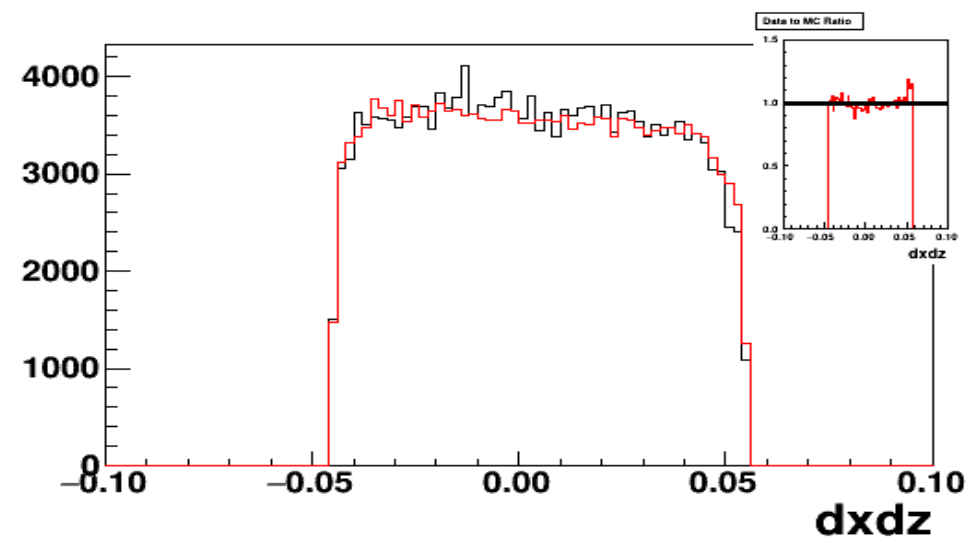
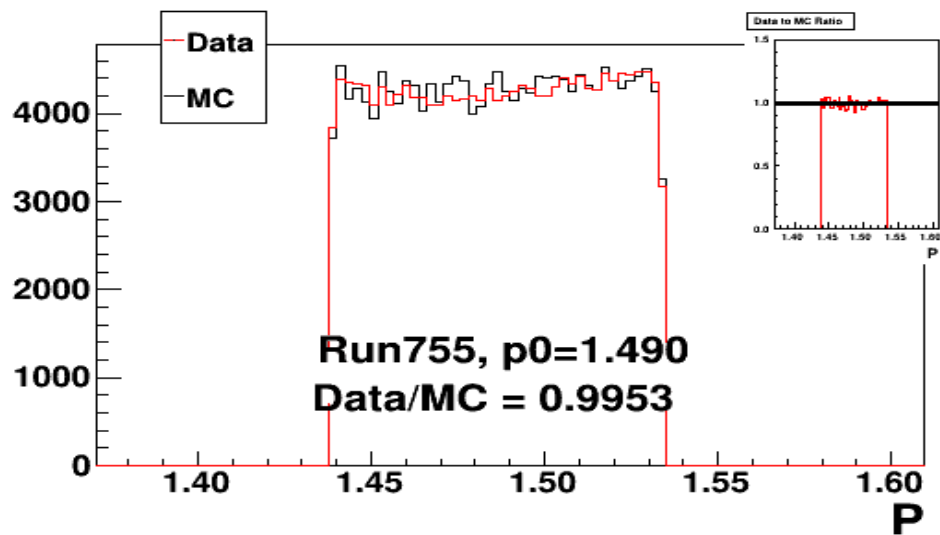
Target comparison



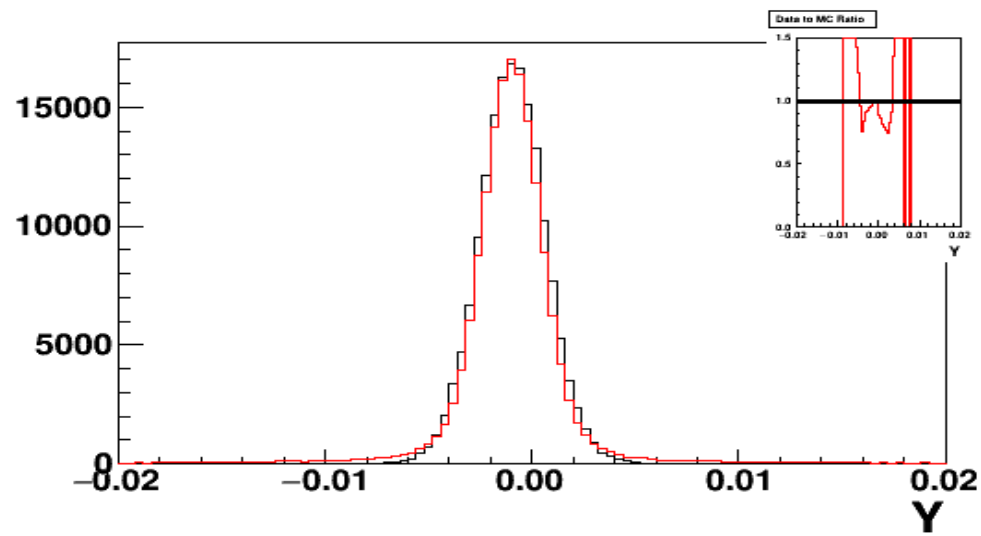
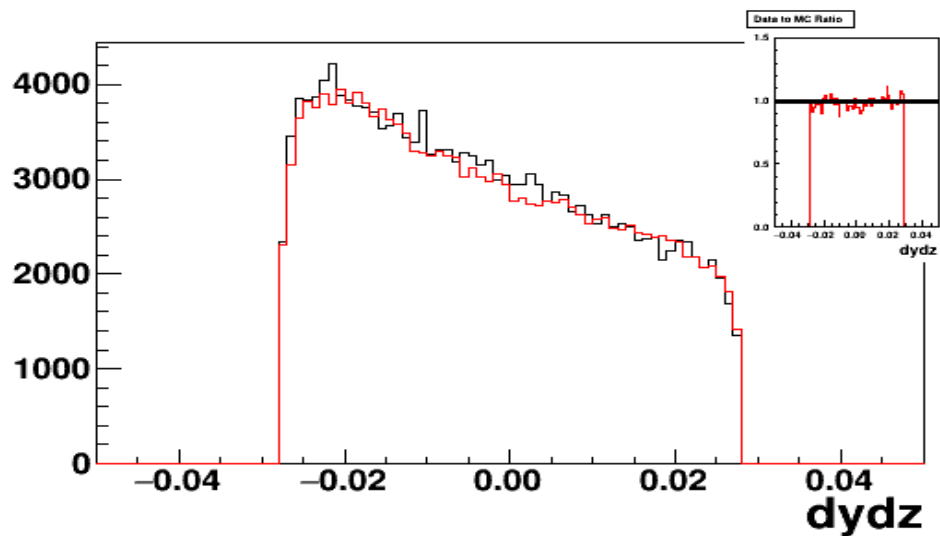
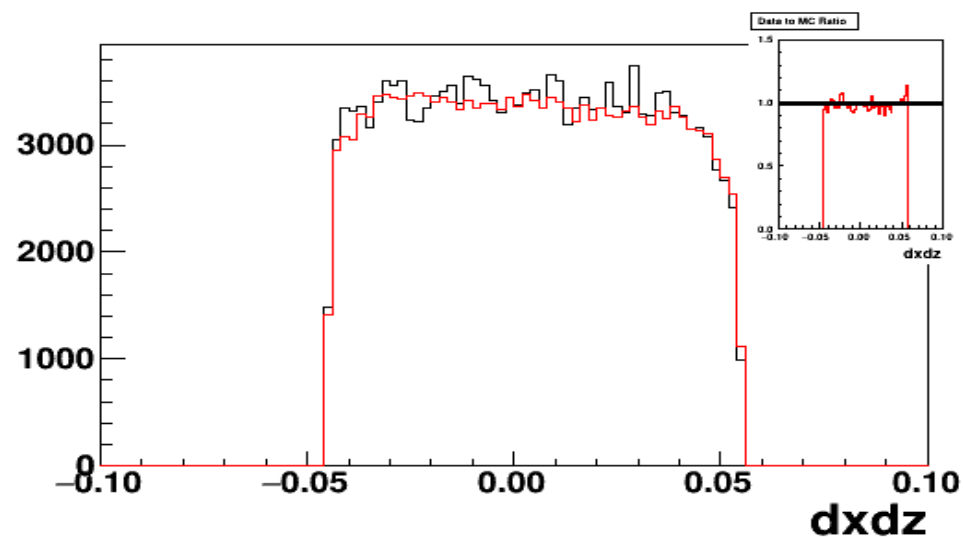
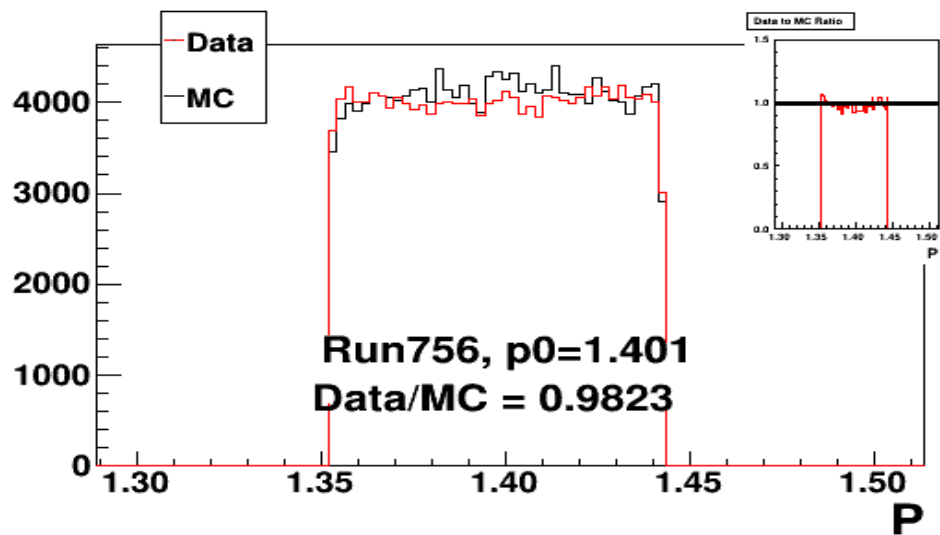
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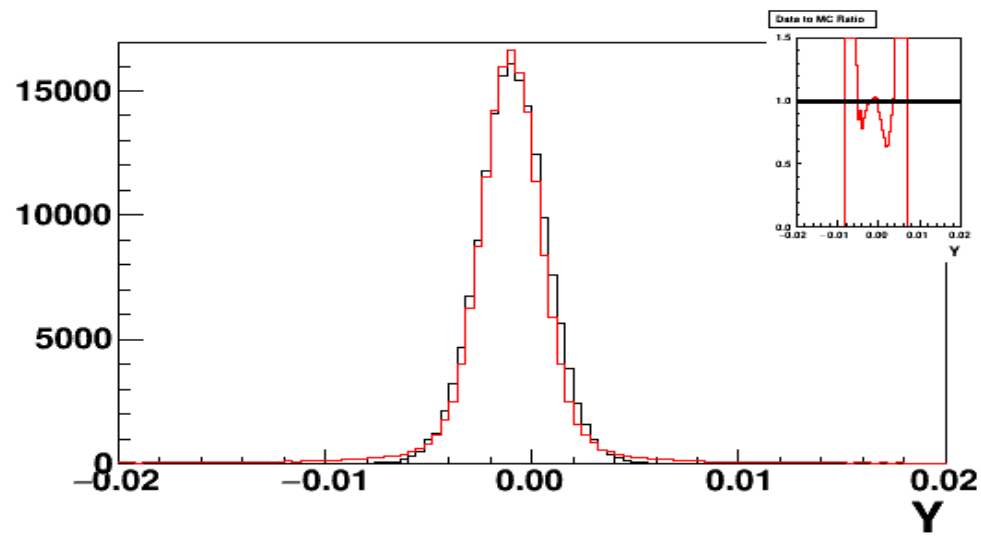
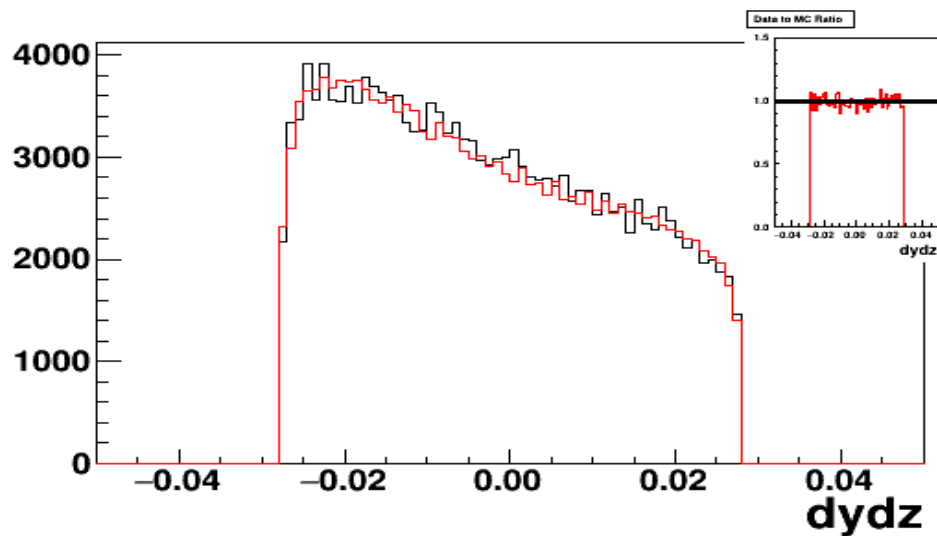
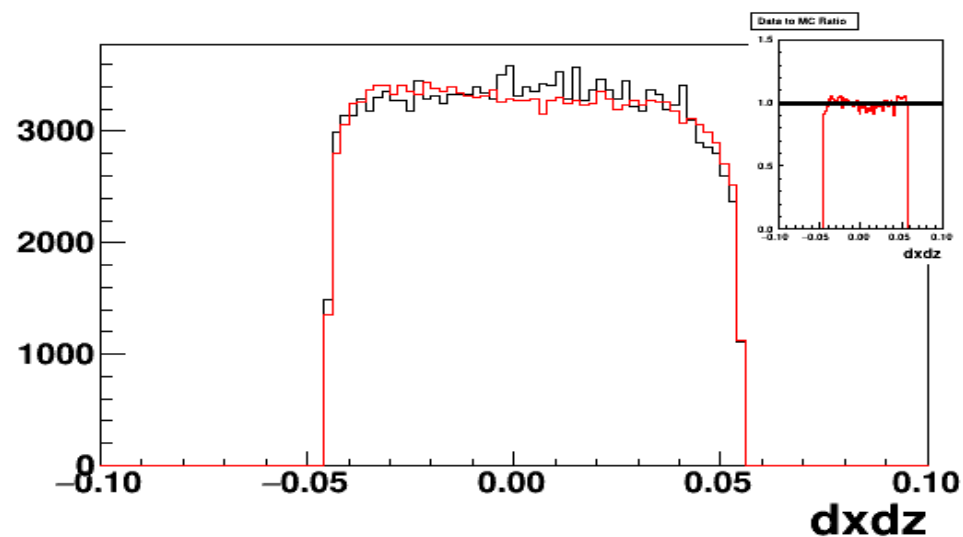
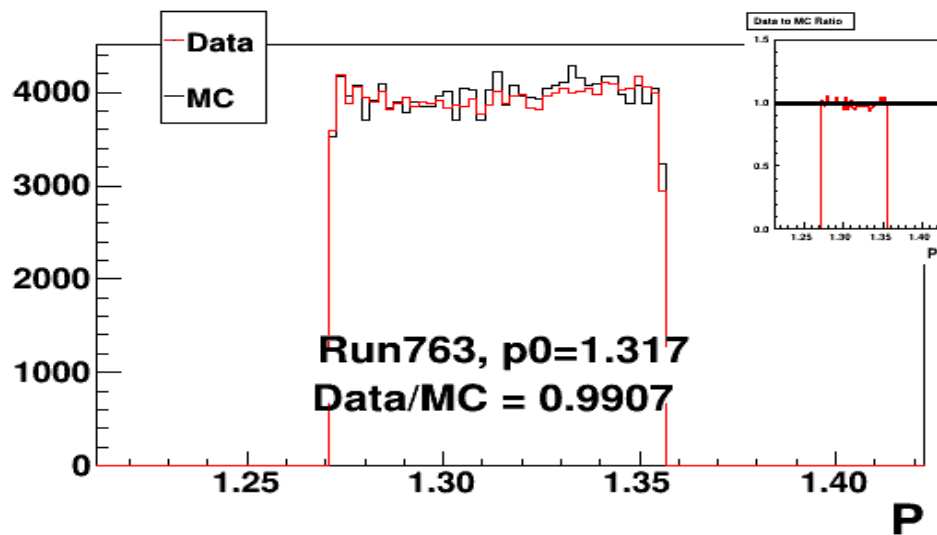
Target comparison



Target comparison



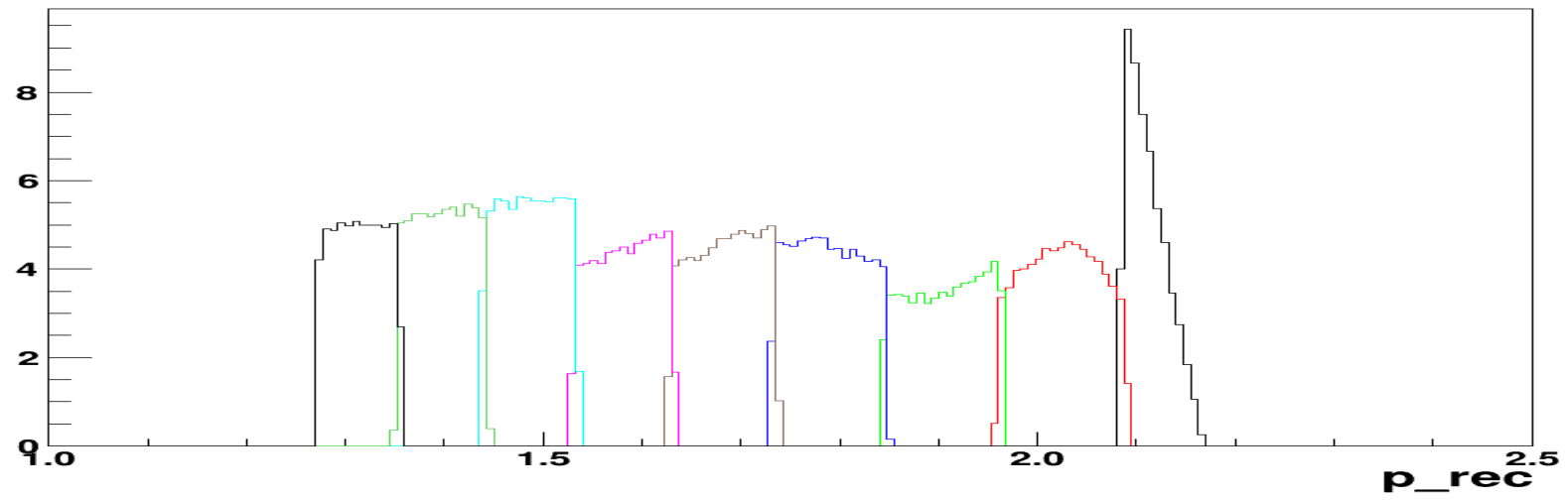
Target comparison



Data and Simulation

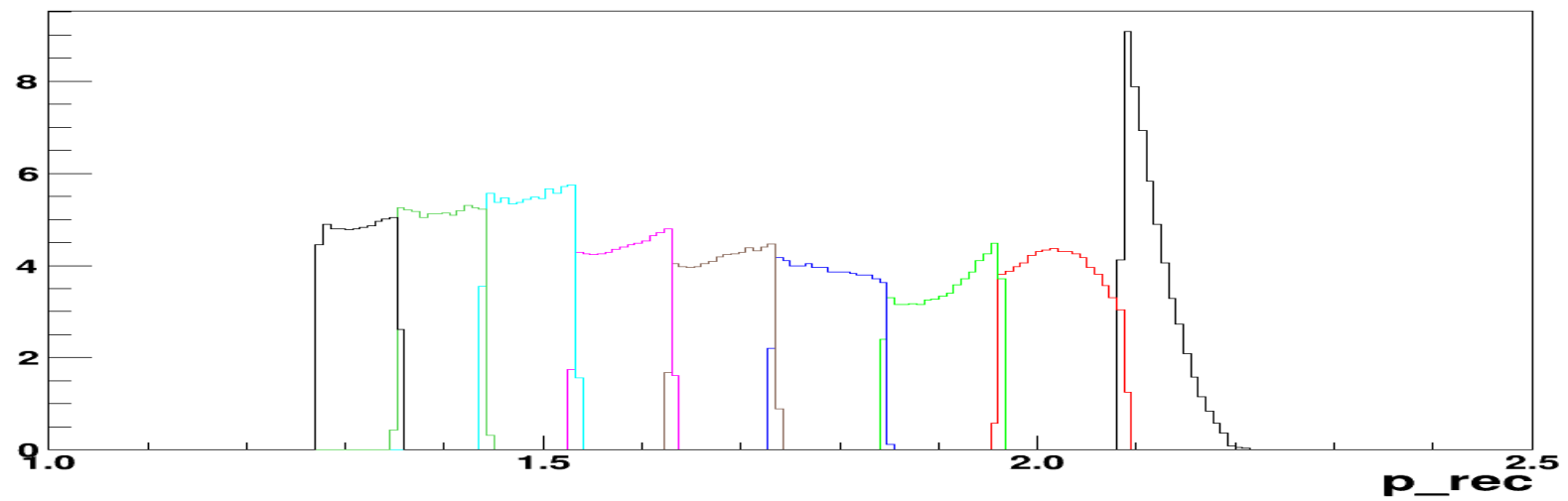
MC

Charge normed yield



Data

Charge normed yield



Data to MC Ratio

Charge-normalized Yield

