

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 |

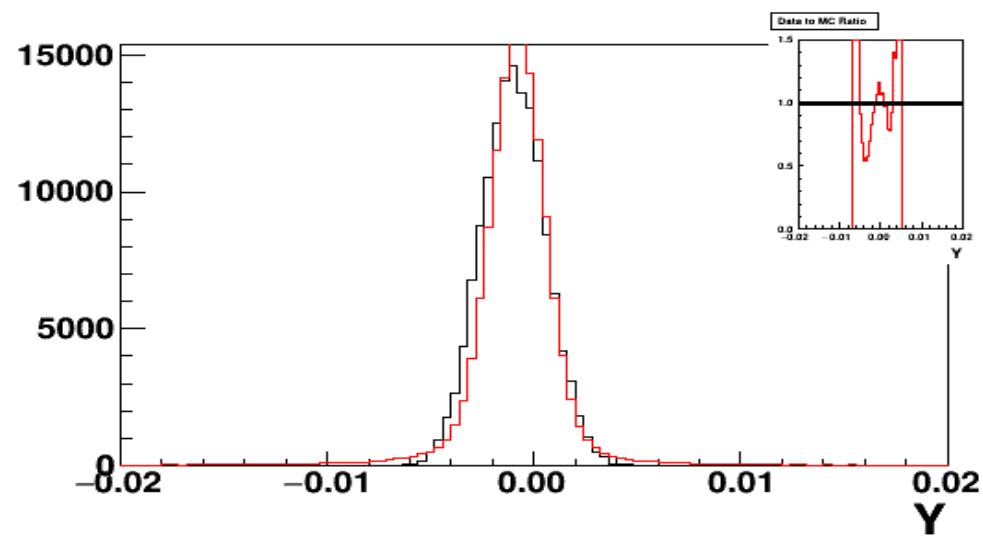
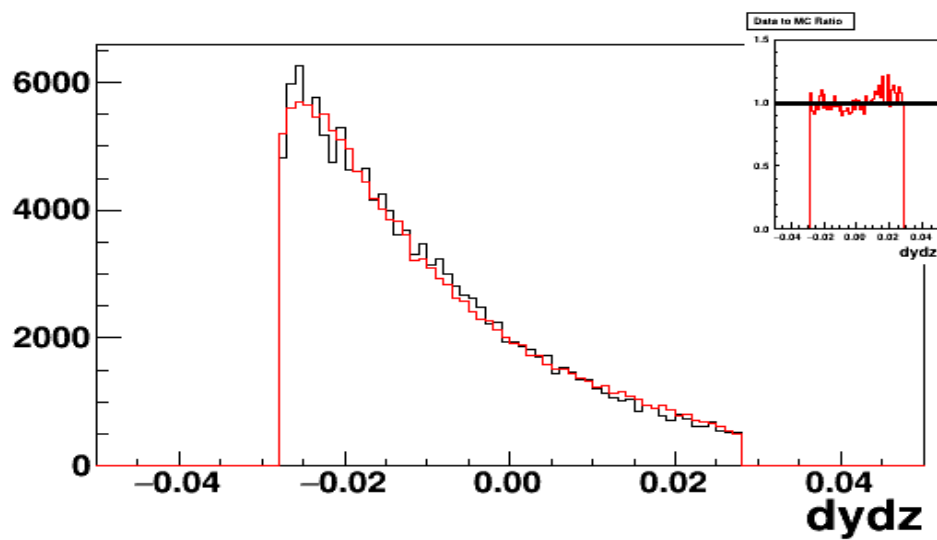
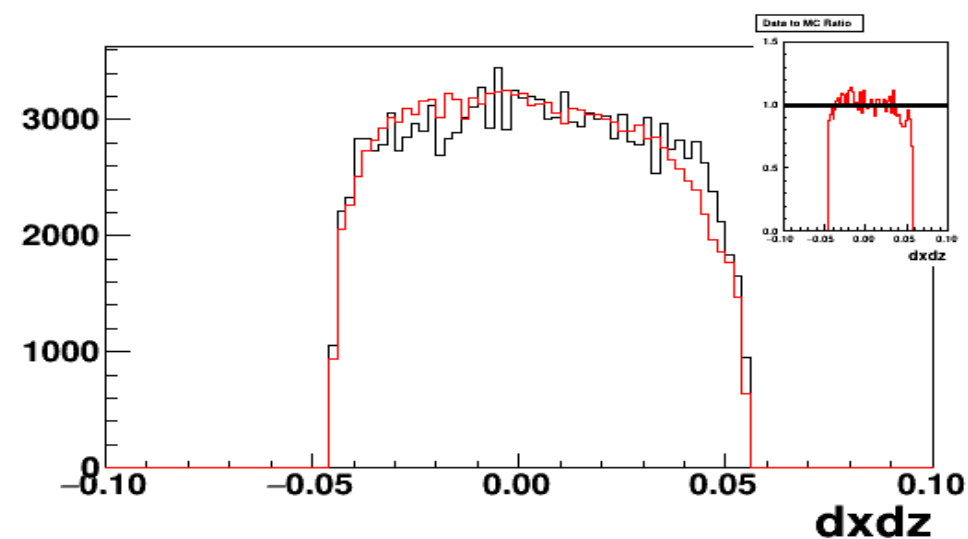
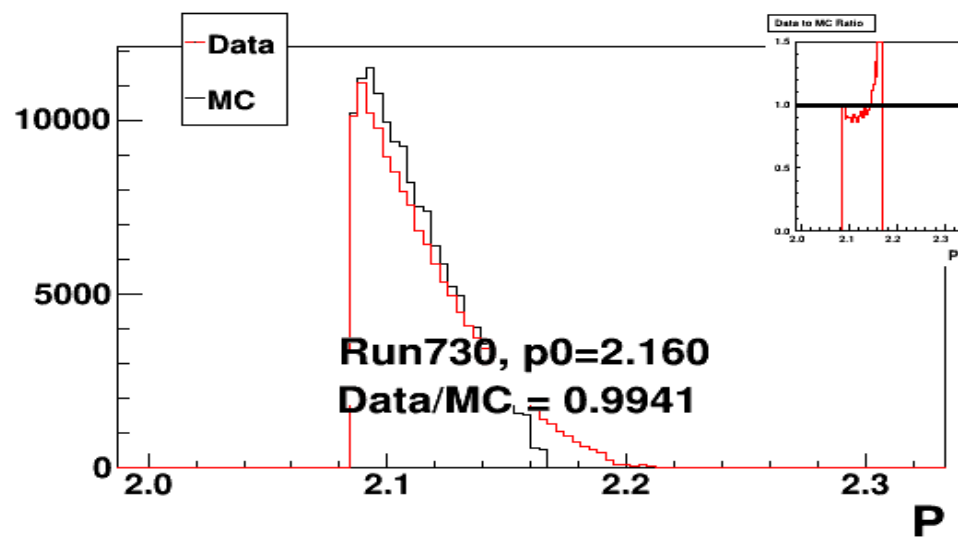
Input file for MC simulation

- 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

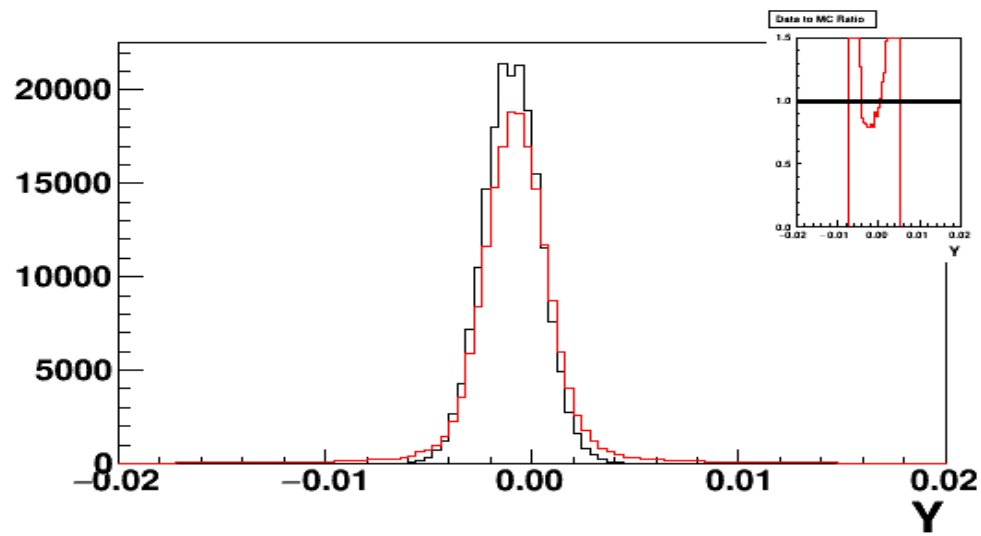
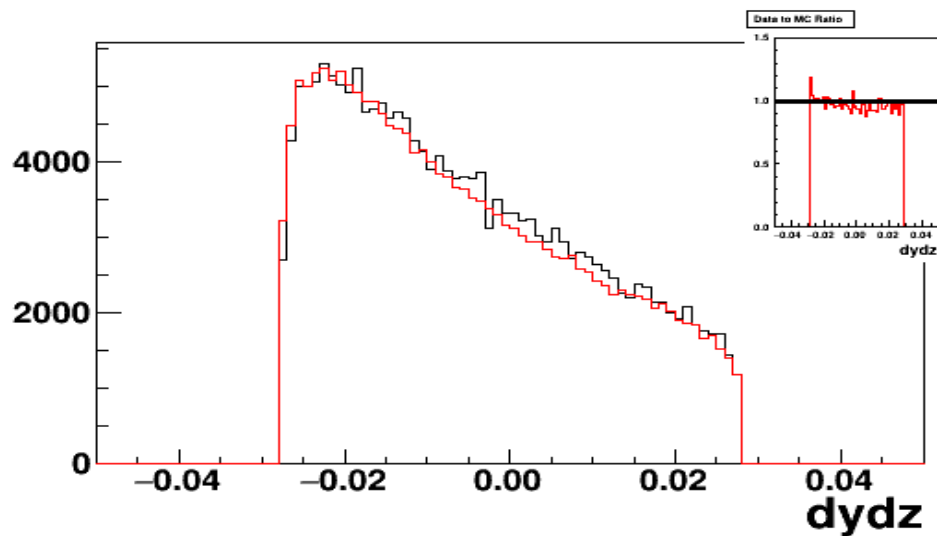
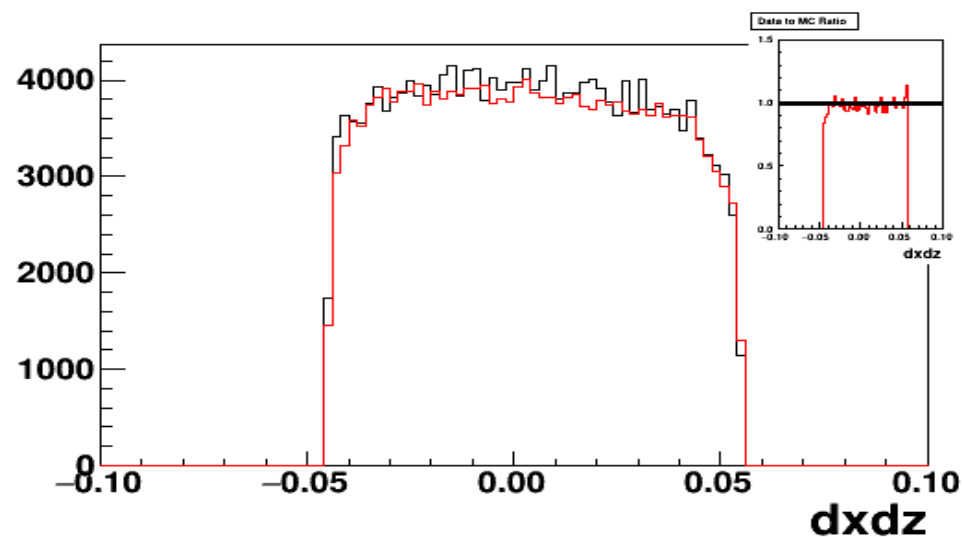
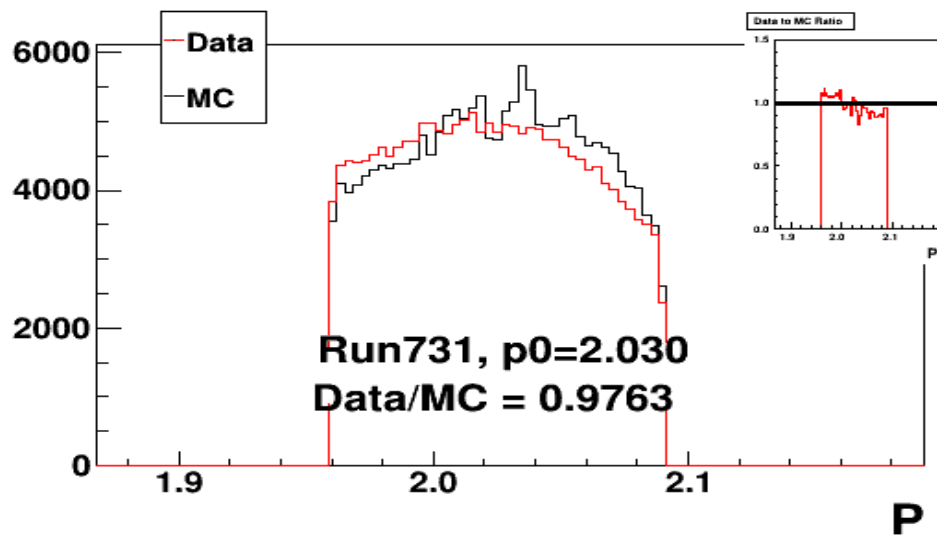
Cuts applied on data

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

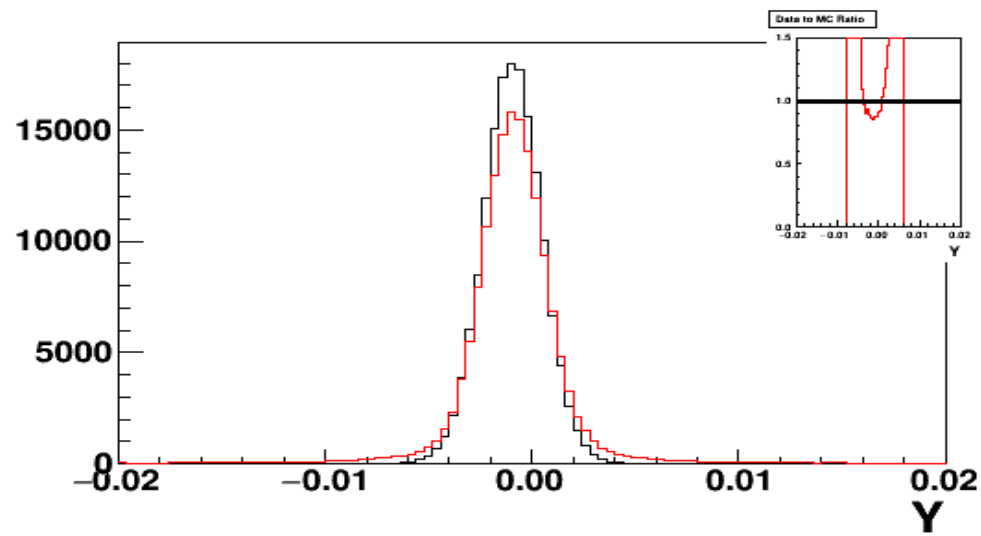
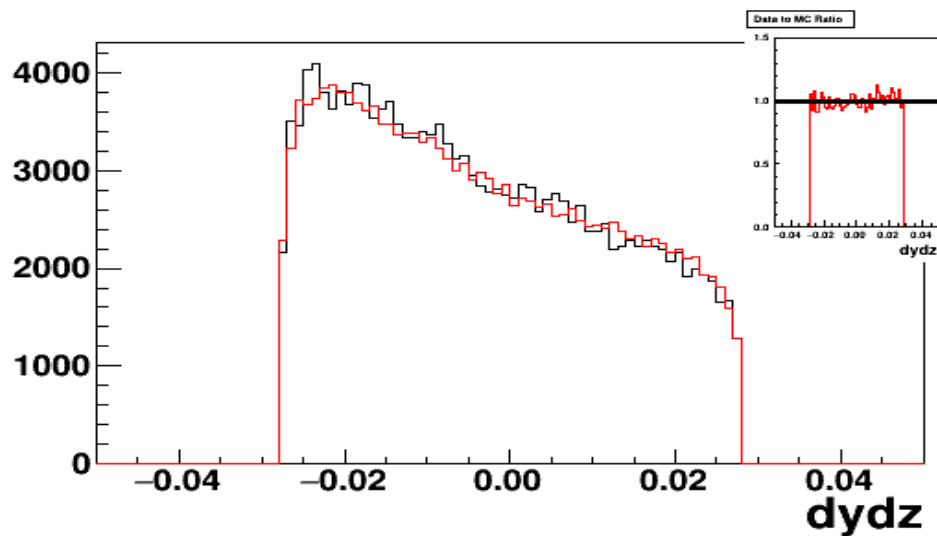
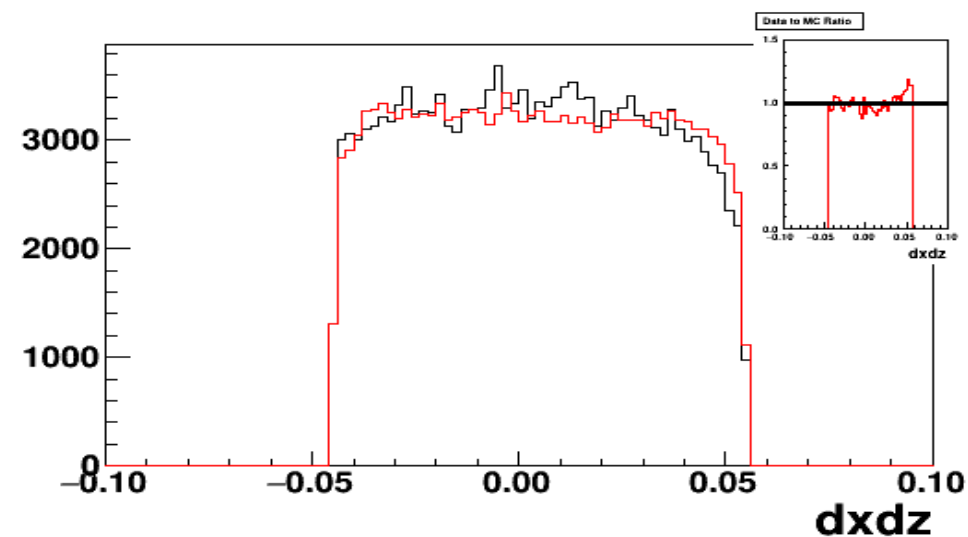
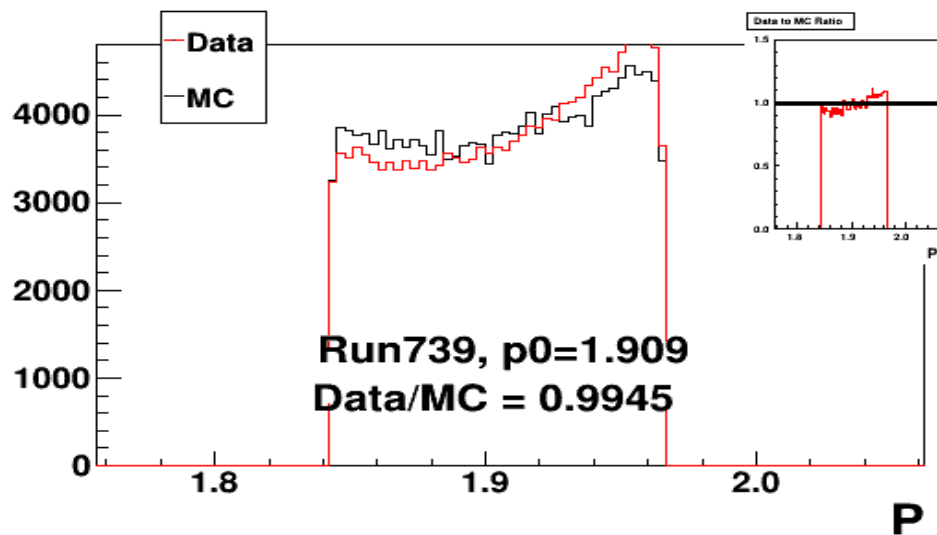
Target comparison



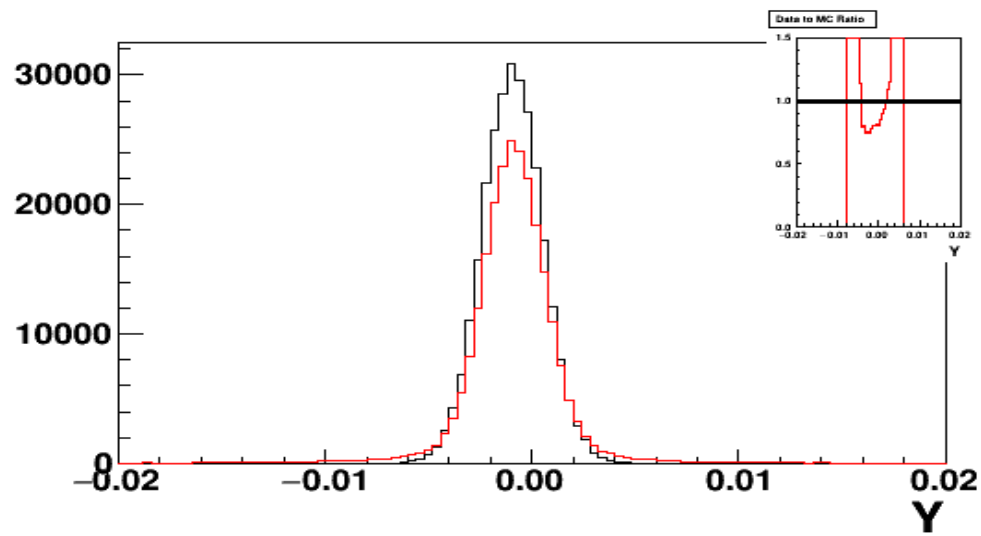
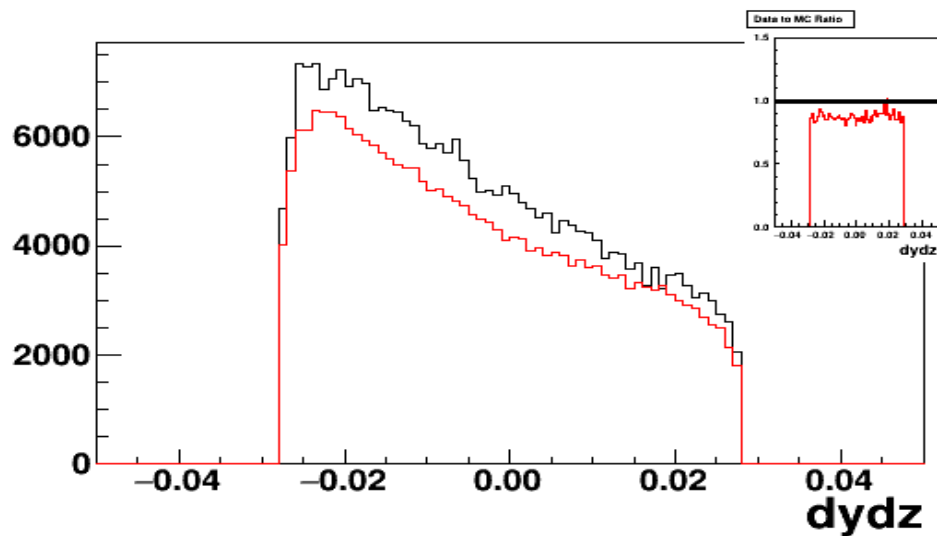
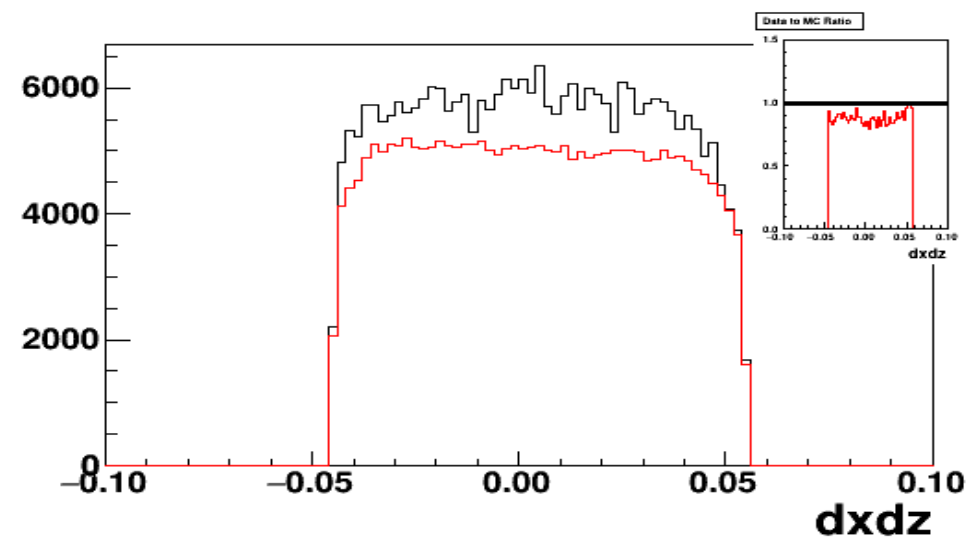
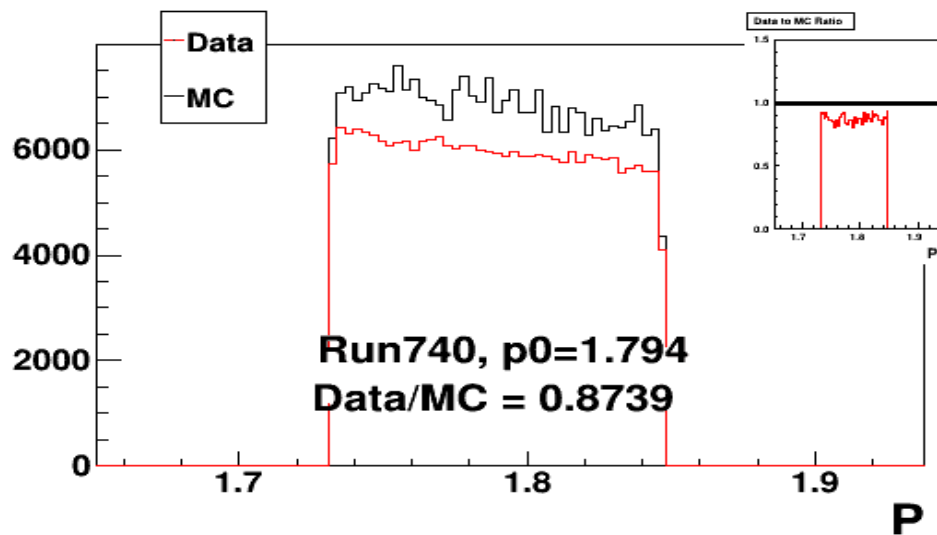
Target comparison



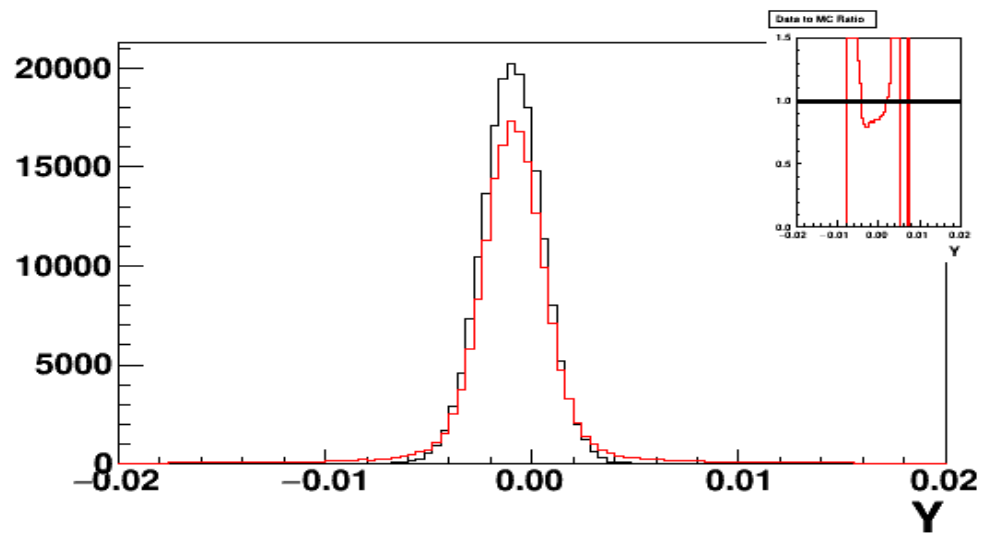
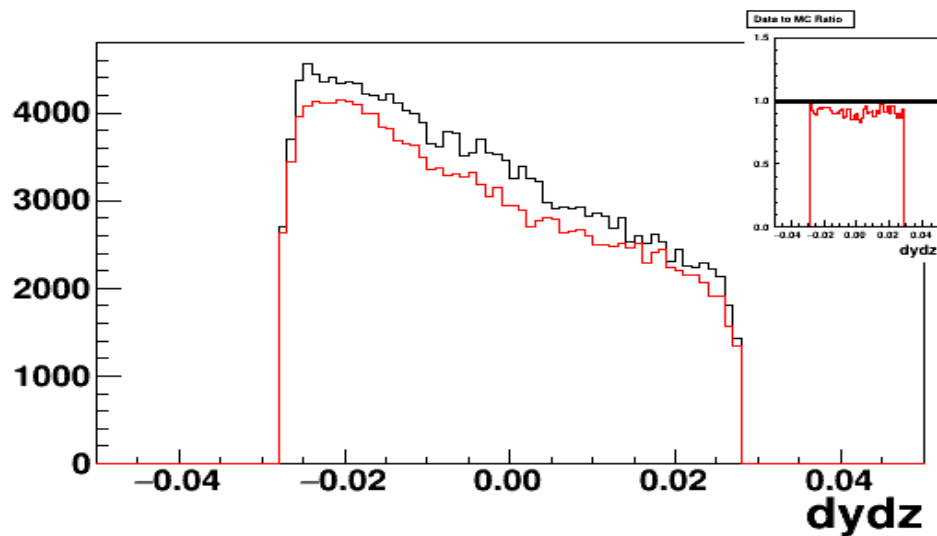
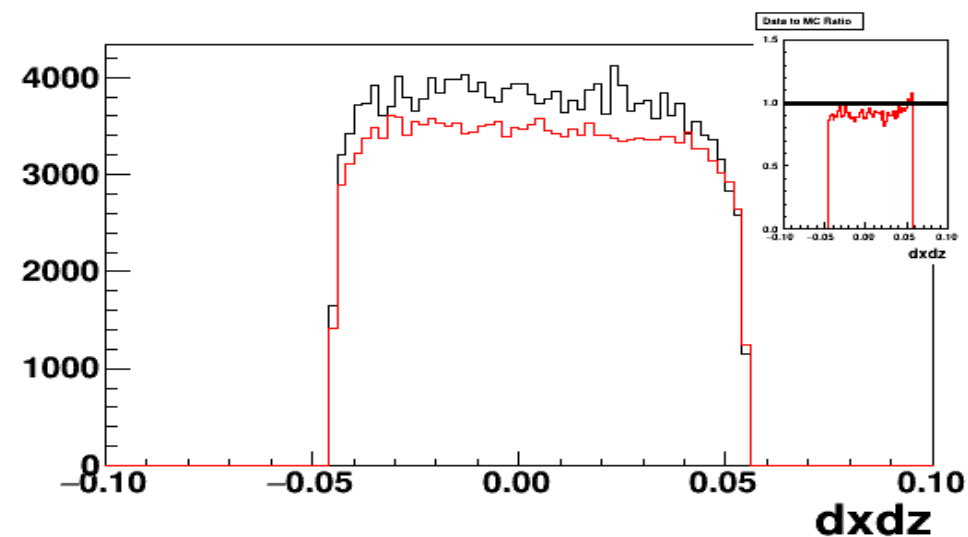
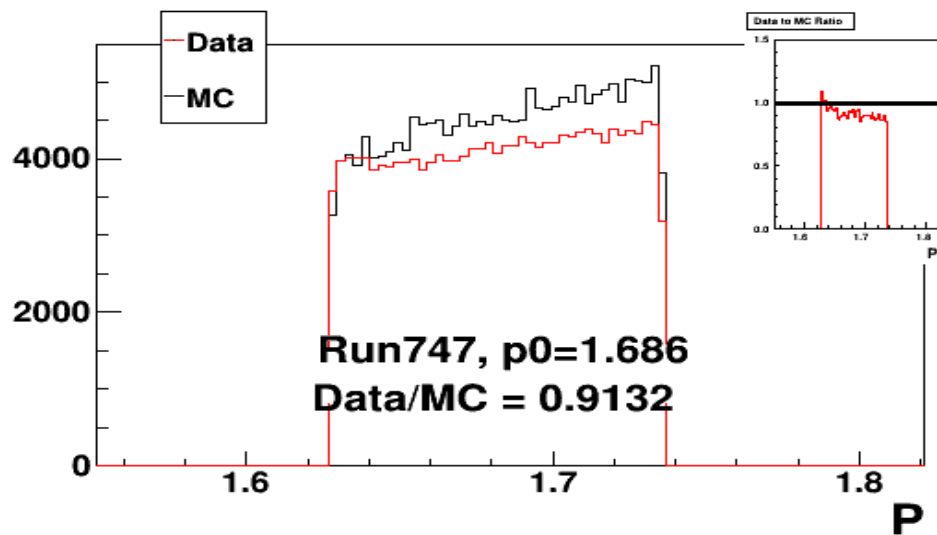
Target comparison



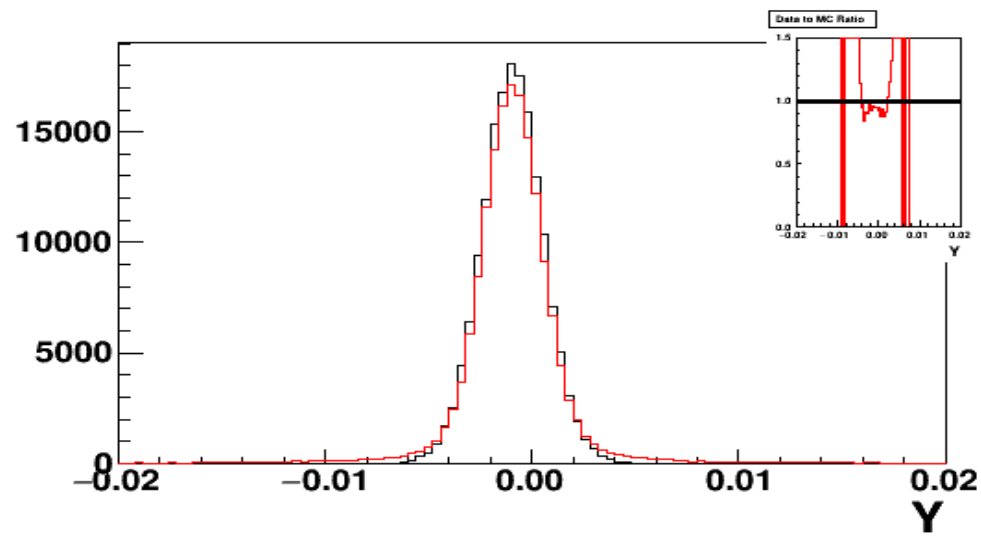
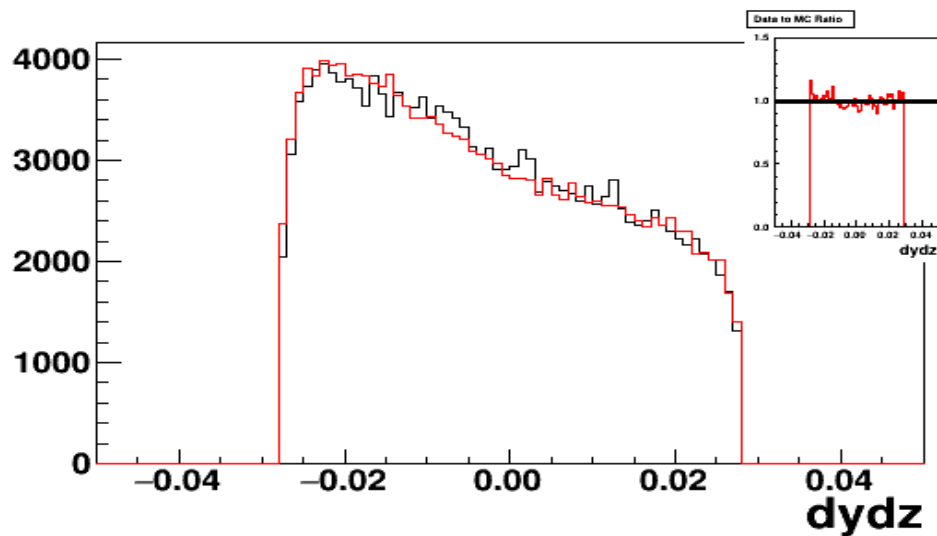
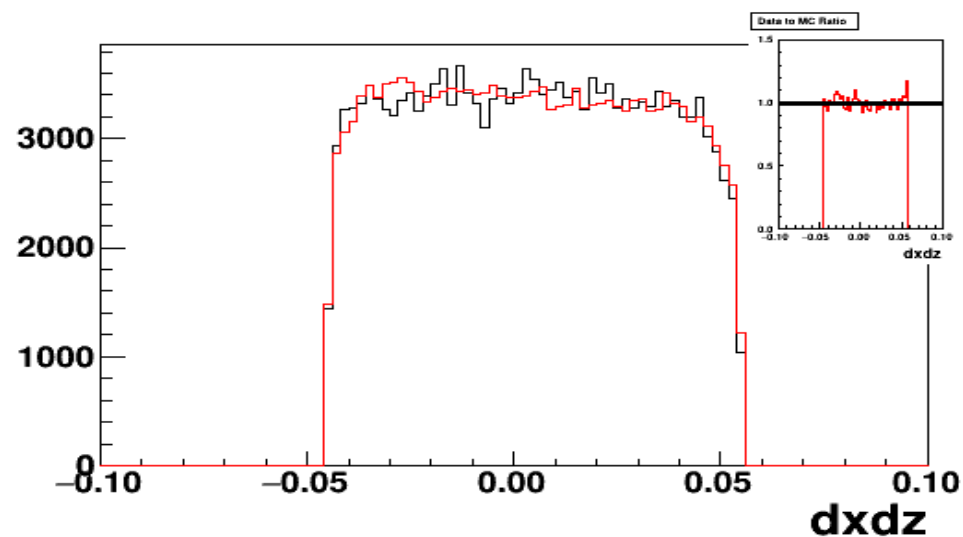
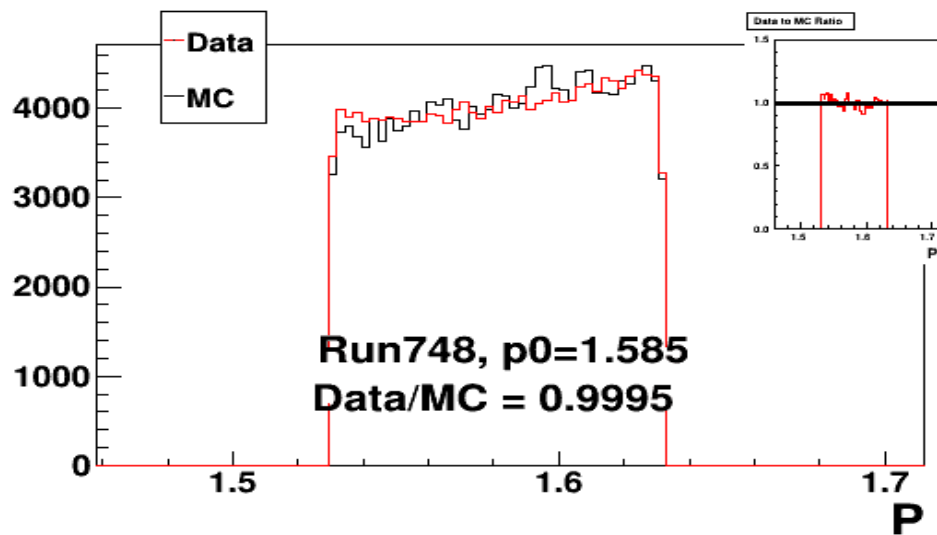
Target comparison



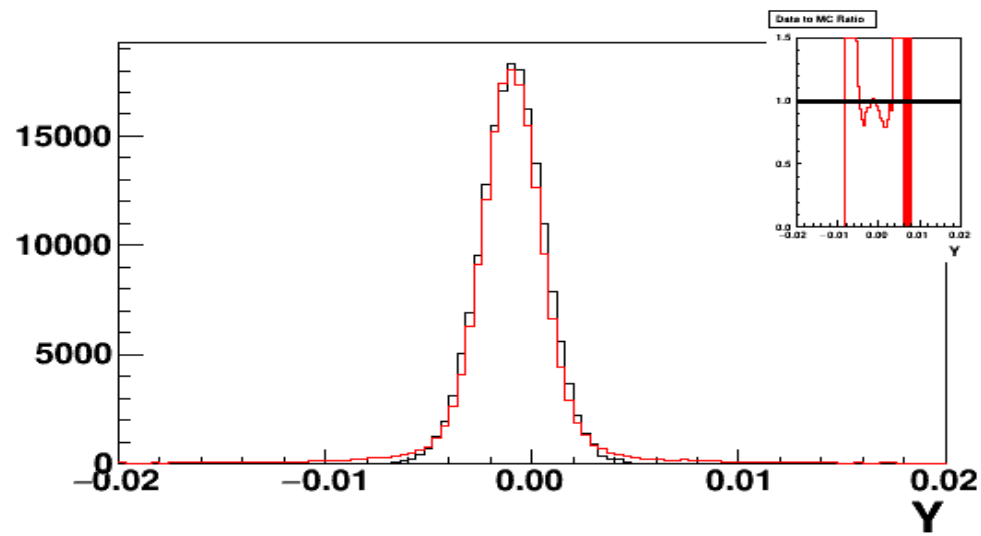
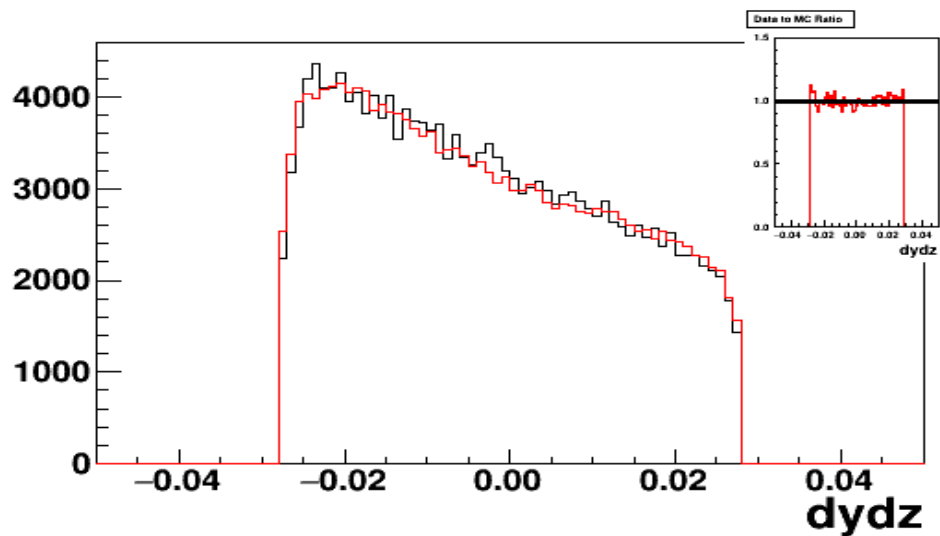
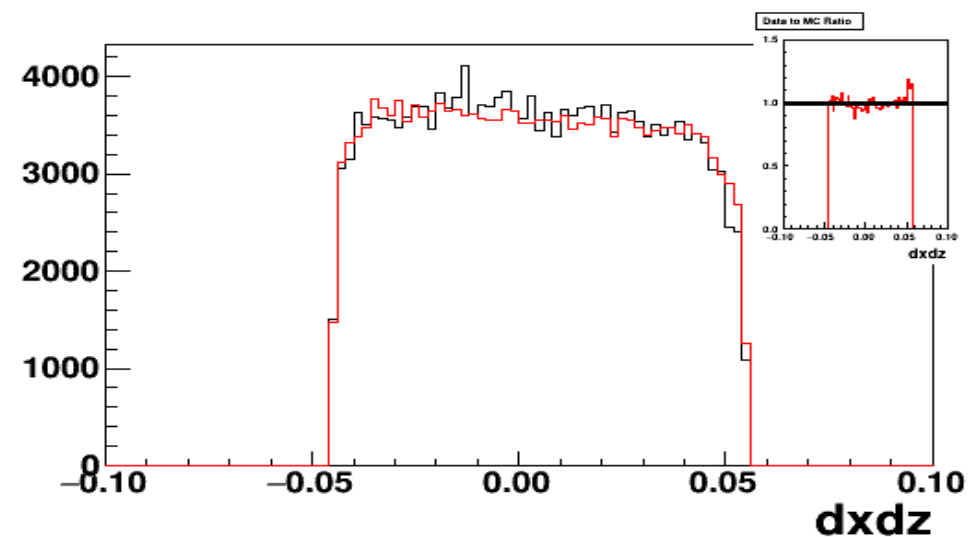
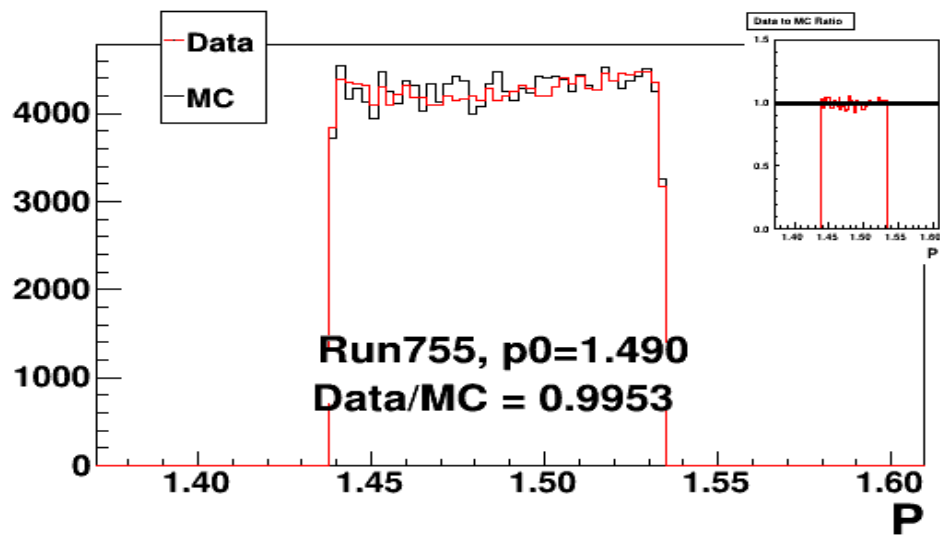
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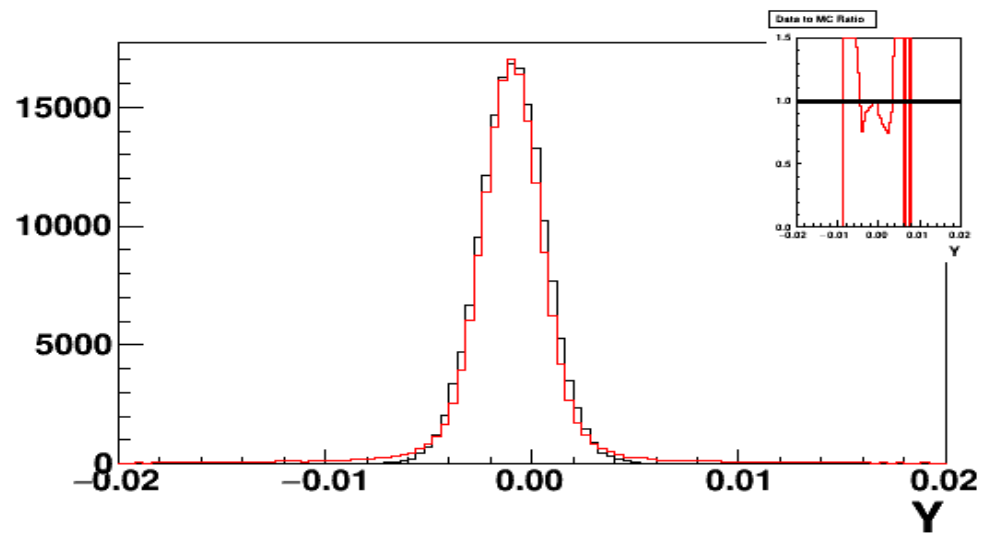
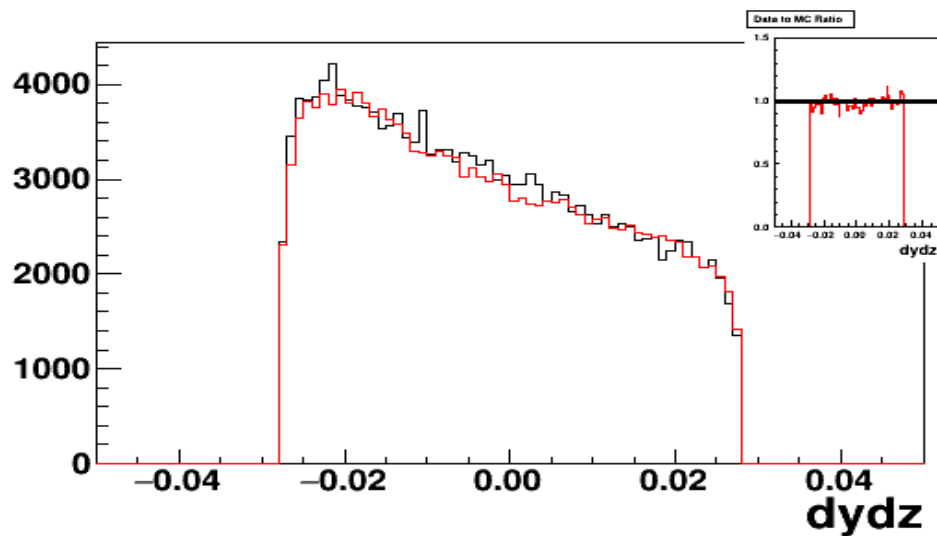
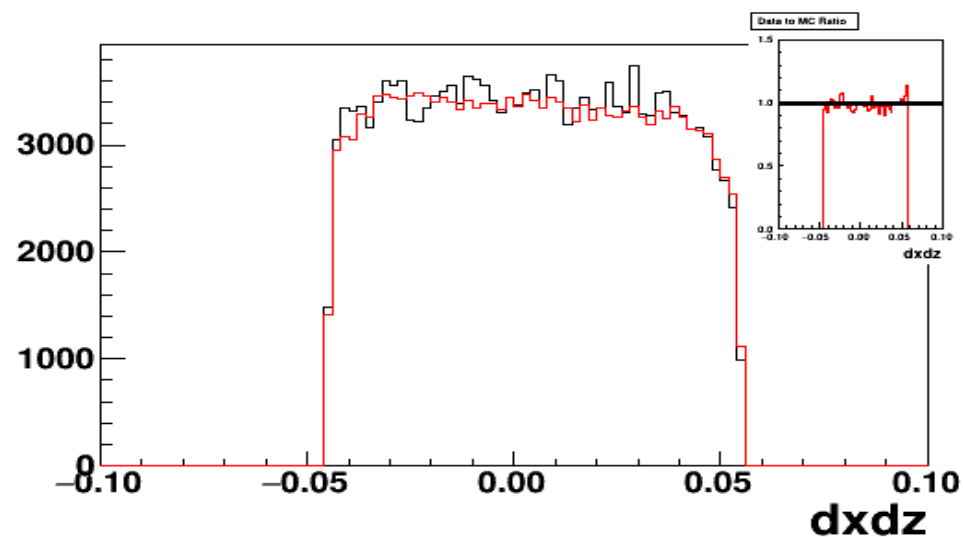
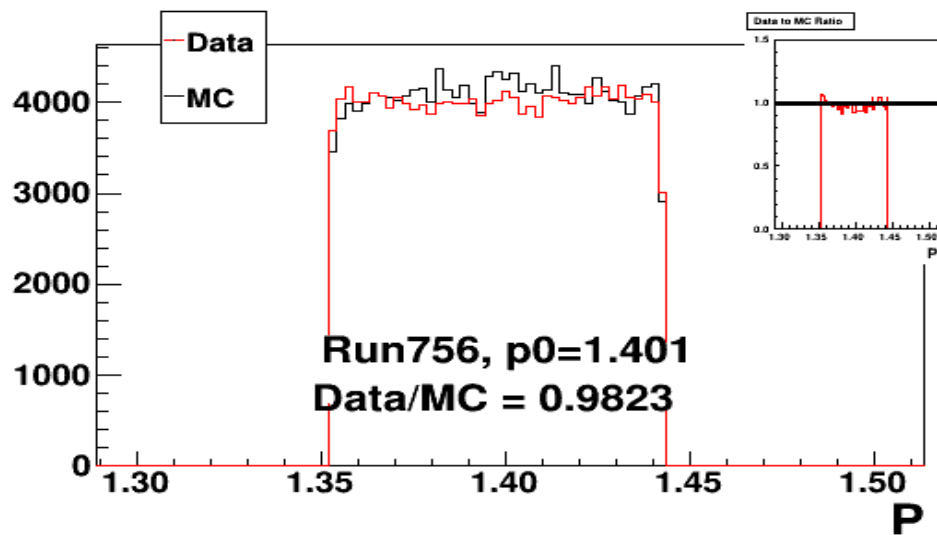
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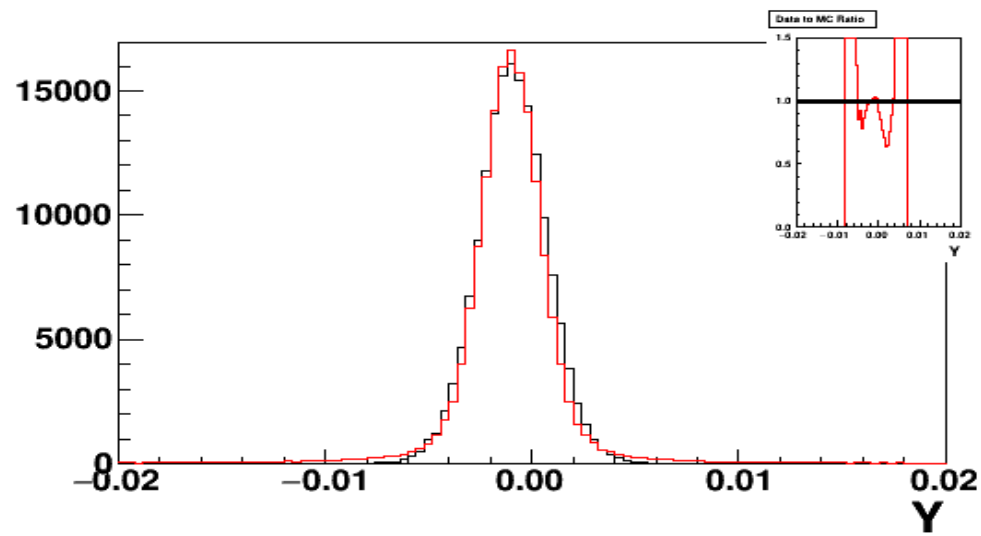
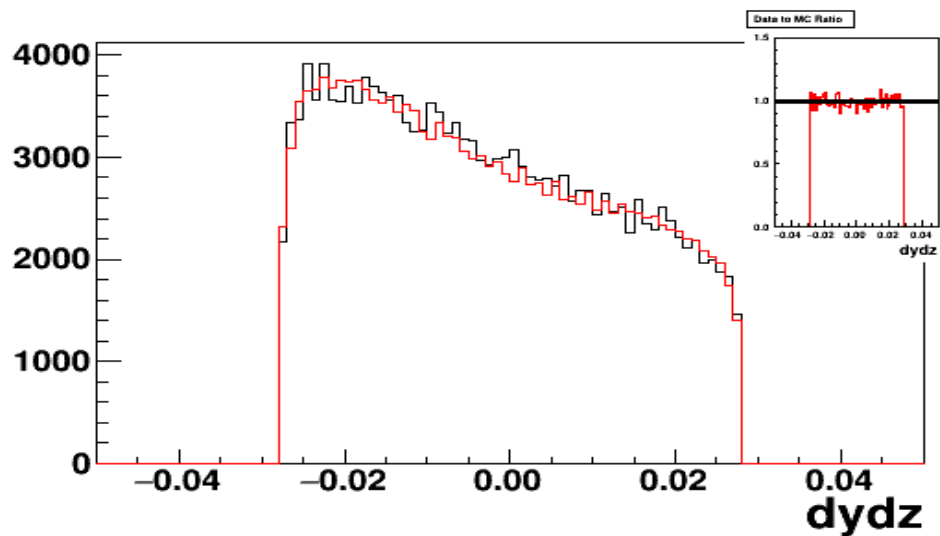
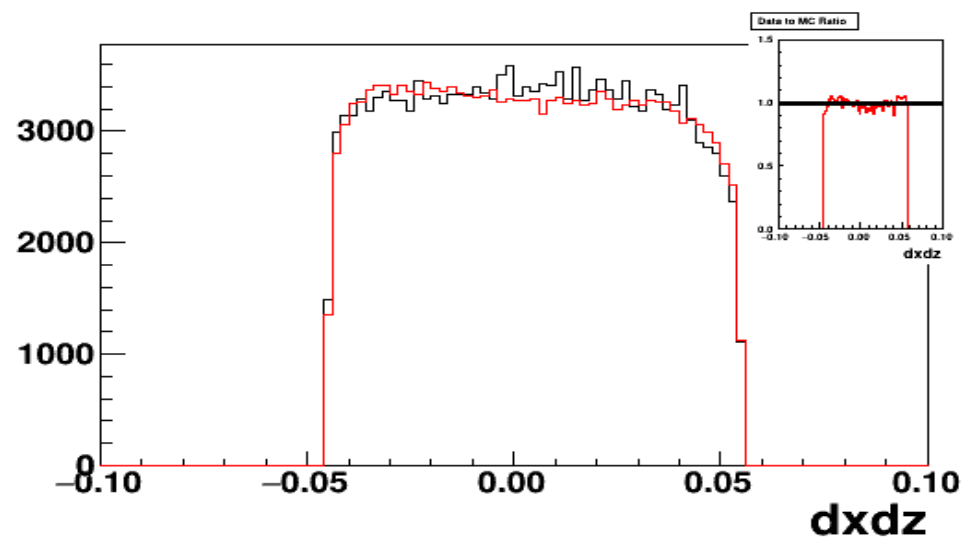
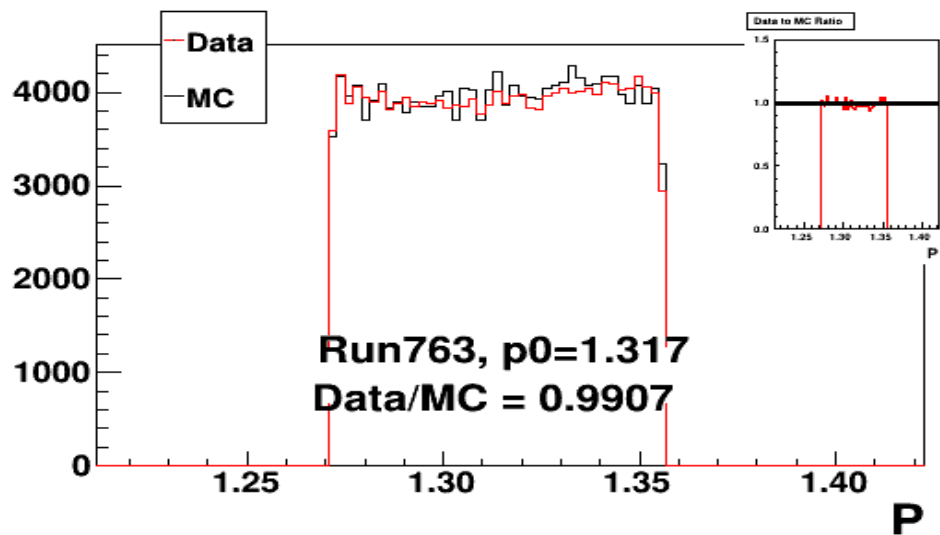
Target comparison



Target comparison

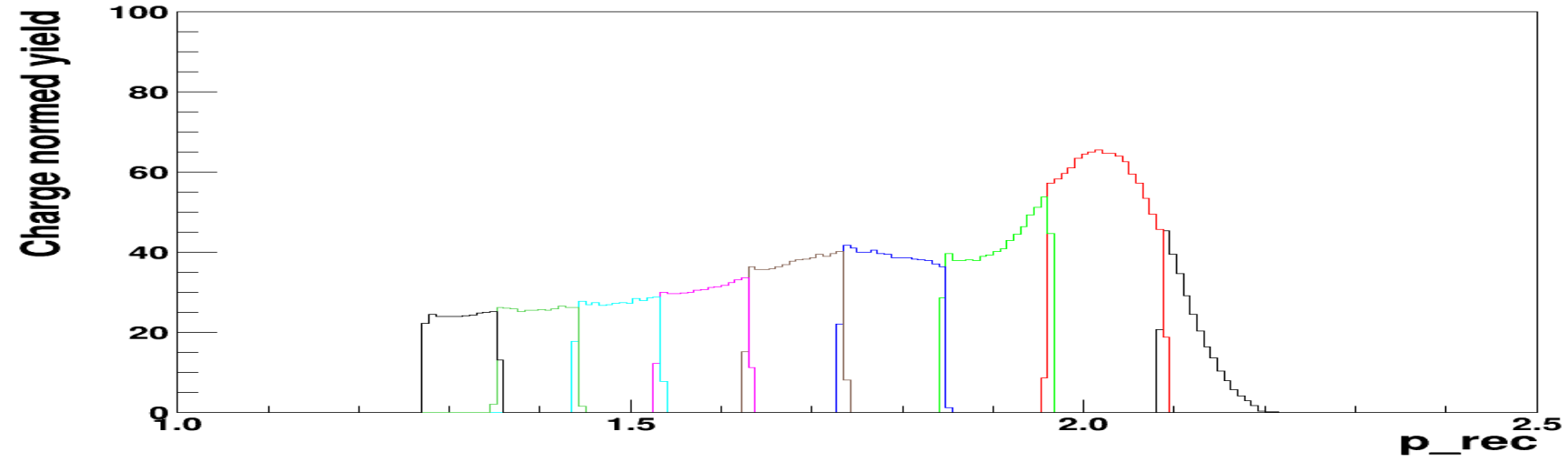


Target comparison

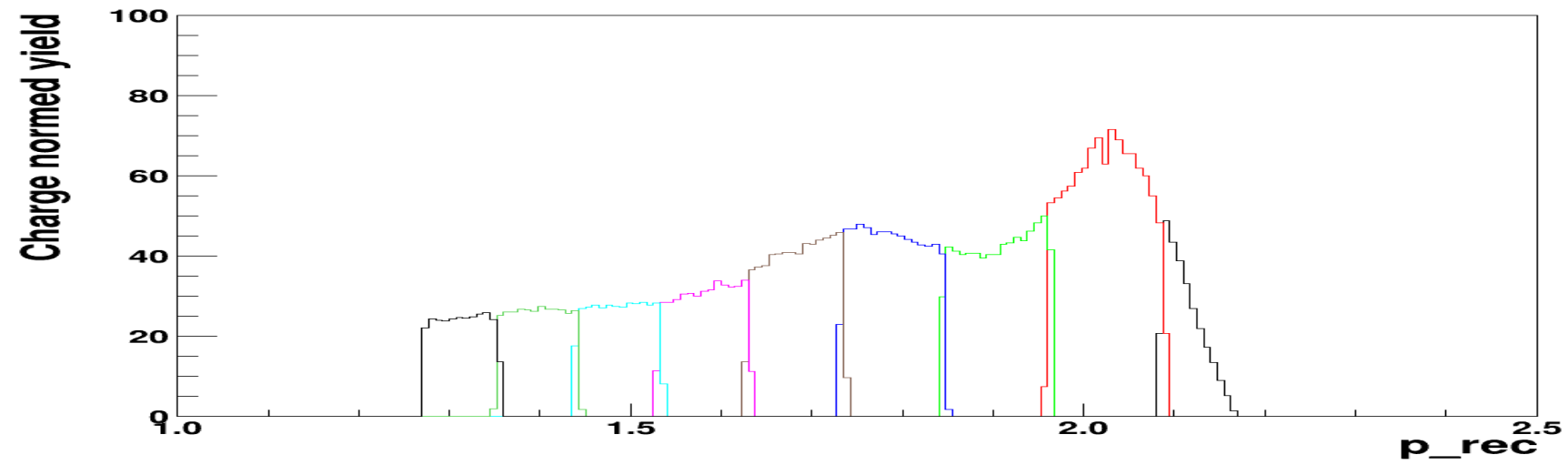


Data and Simulation

Data



MC



Data to MC Ratio

