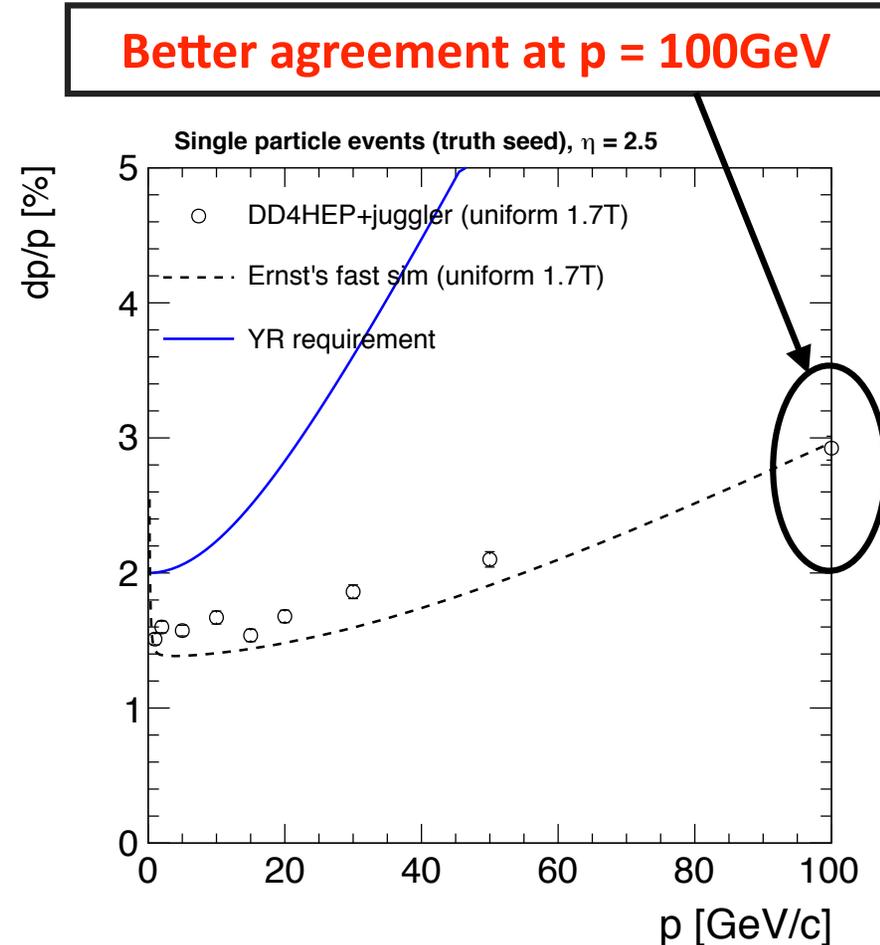
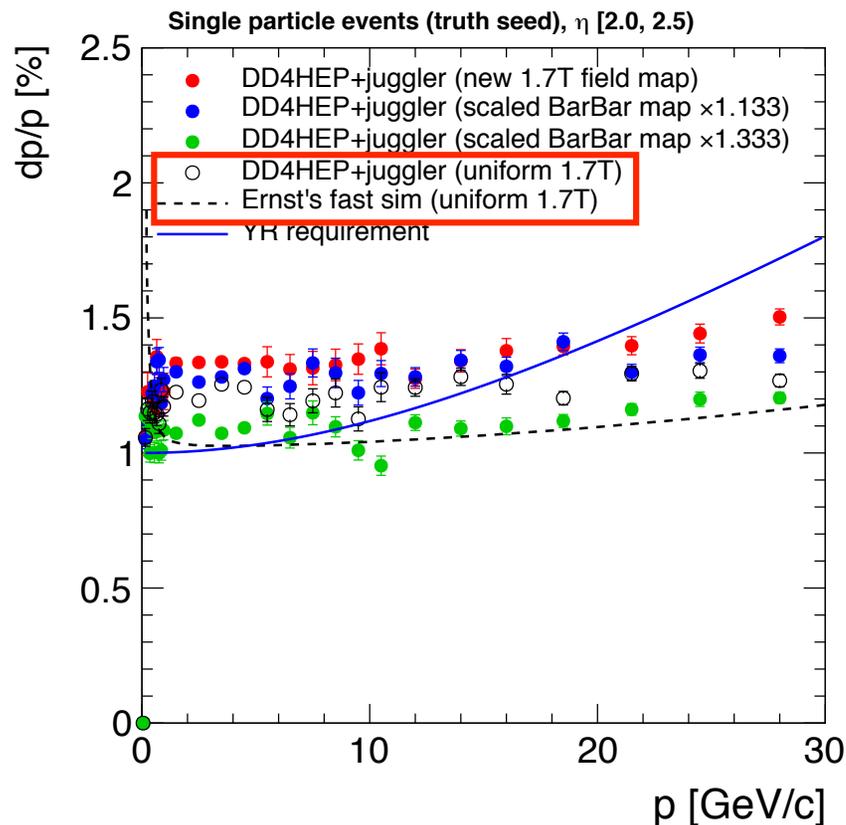


- ▶ Same (symmetric) geometry with uniform 1.7T field
 - ◆ Barrel MPGD: spatial resolution 150 μ m, $r = 51$ cm
 - ◆ Barrel silicon: spatial resolution 10 μ m/ $\sqrt{12}$, $r = 3.6, 4.8, 12, 27, 42$ cm
 - ◆ Endcap silicon: spatial resolution 10 μ m/ $\sqrt{12}$, $z = 25, 45, 70, 100, 135$ cm
 - ◆ Support cone included in full simulation

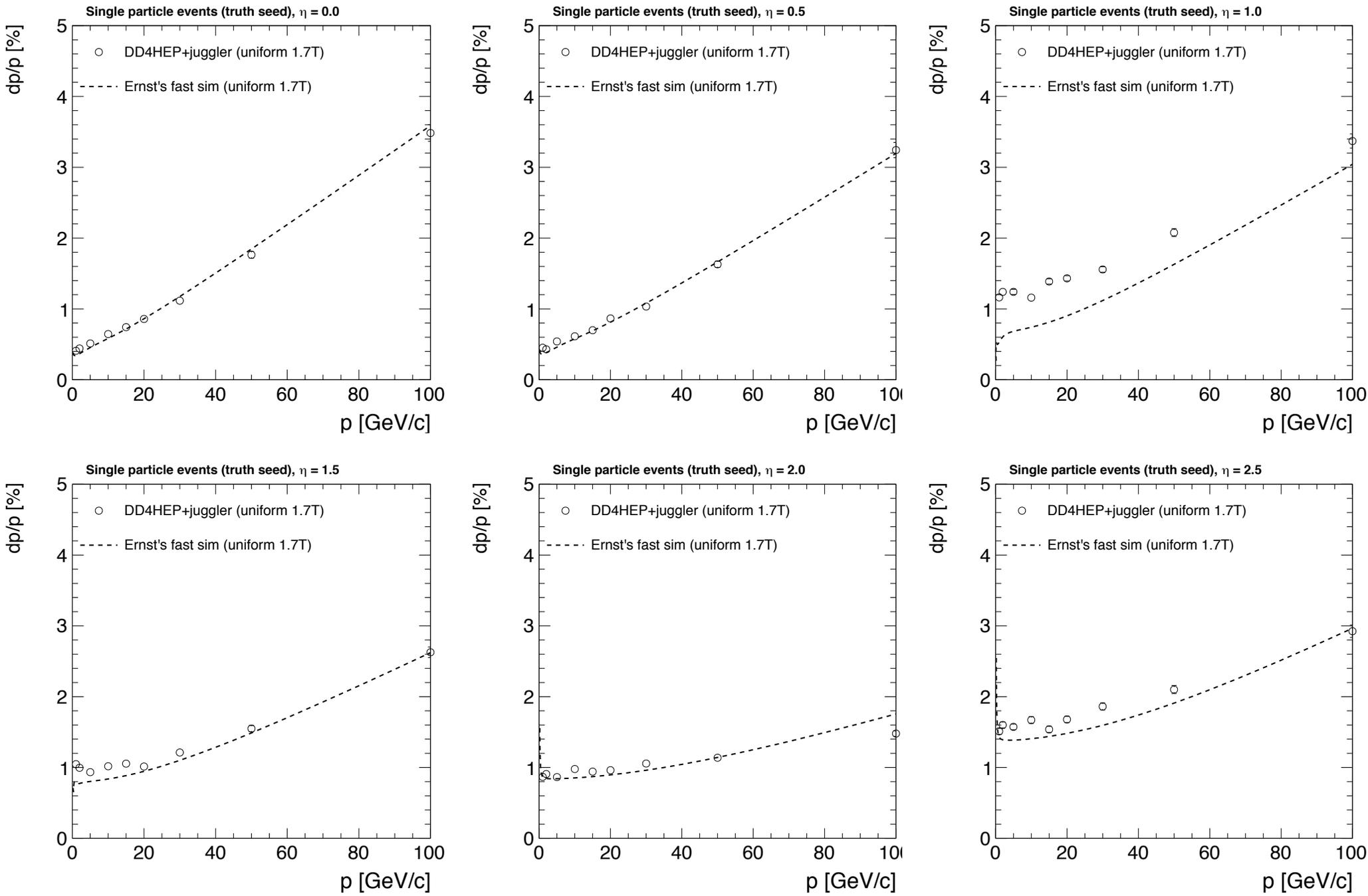
- ▶ Test events
 - ◆ Single pion events where pions are generated with fixed p and η
 - ◆ 1000 events per configuration

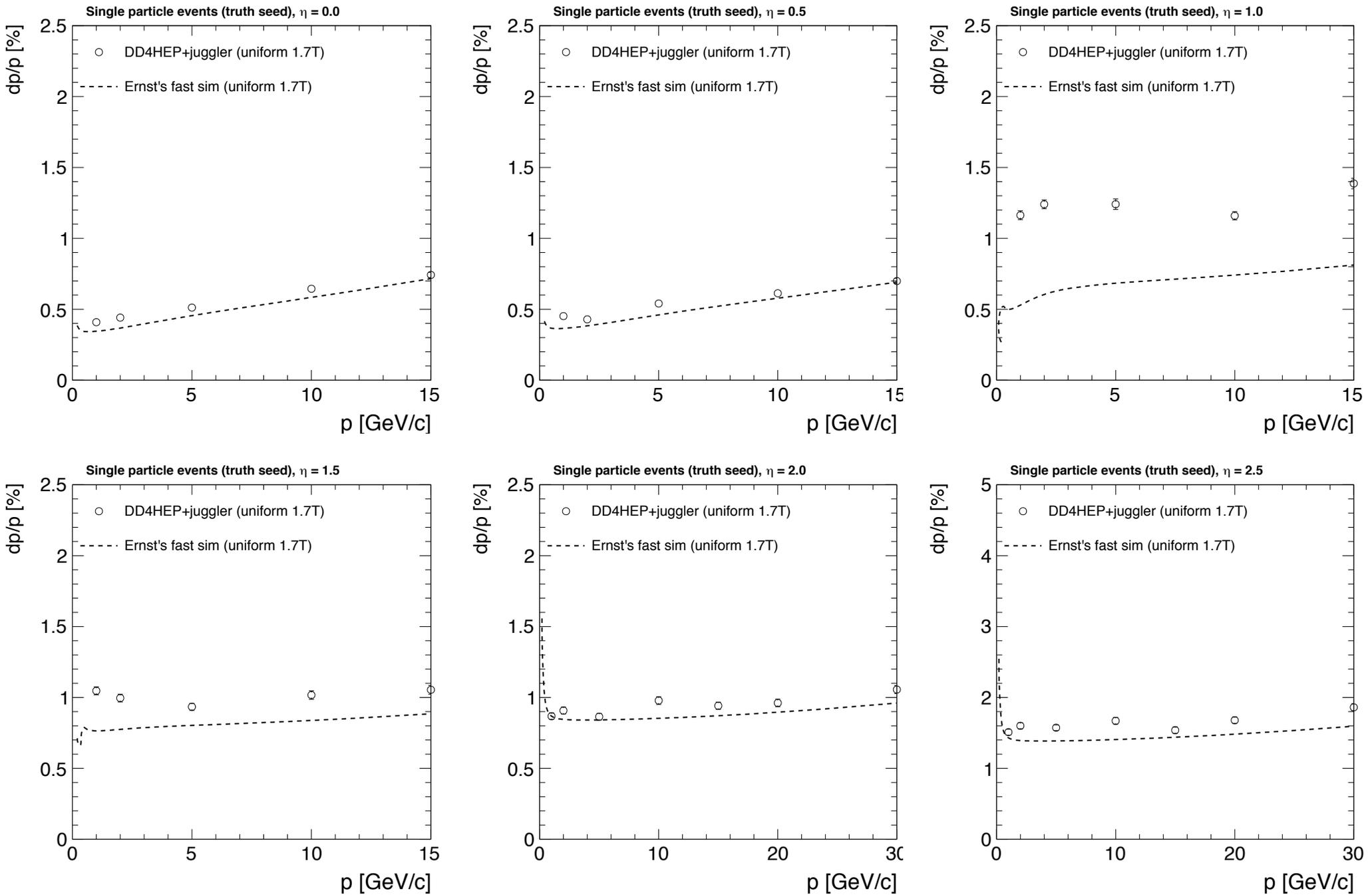
► Discrepancy between full and fast simulation

- ◆ Support cone not included in the fast simulation
- ◆ Different material for disks: 0.24% per disk in fast simulations and $>0.29\%$ per disk in the full simulation (0.29%, 0.33%, 0.34%, 0.36%, 0.38%)

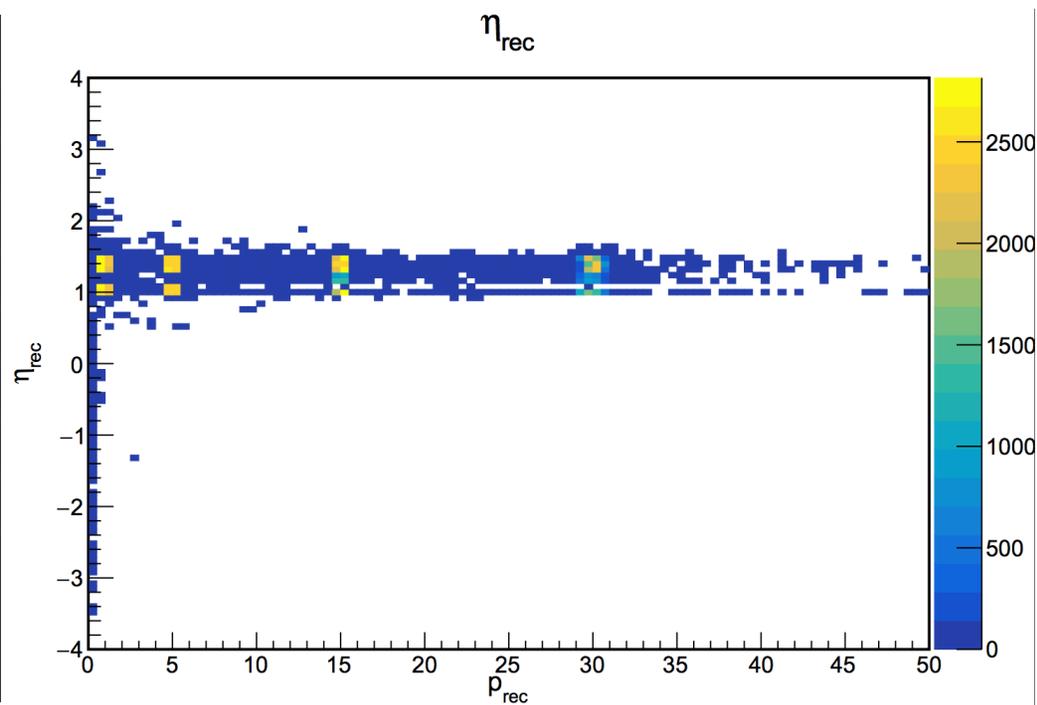
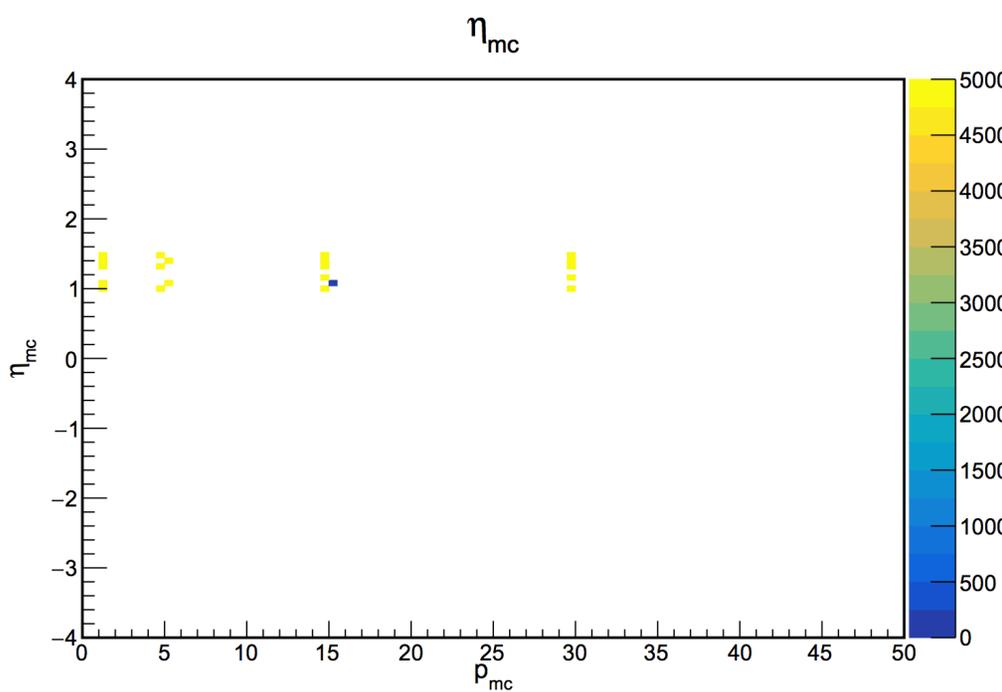


Comparison between full and fast simulation

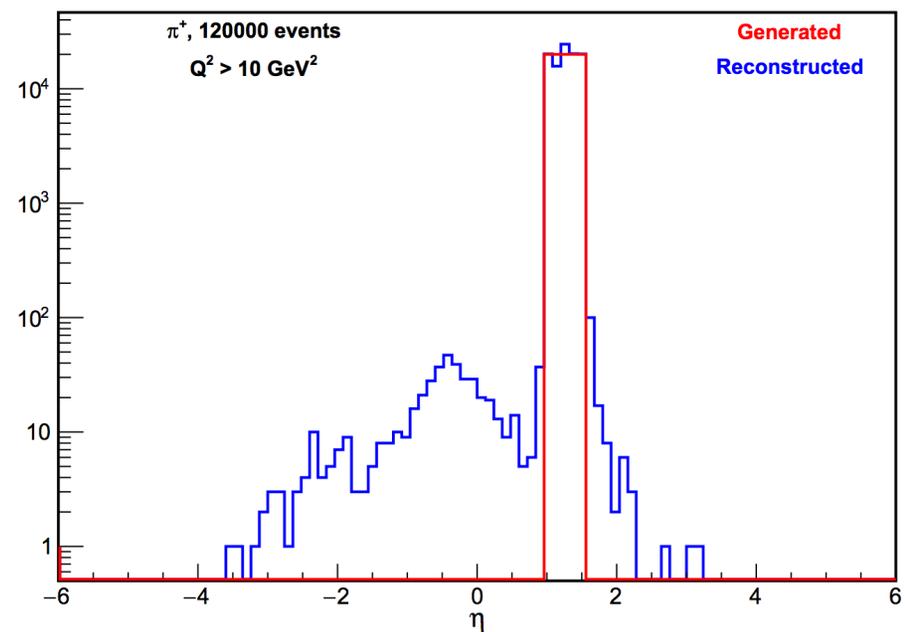
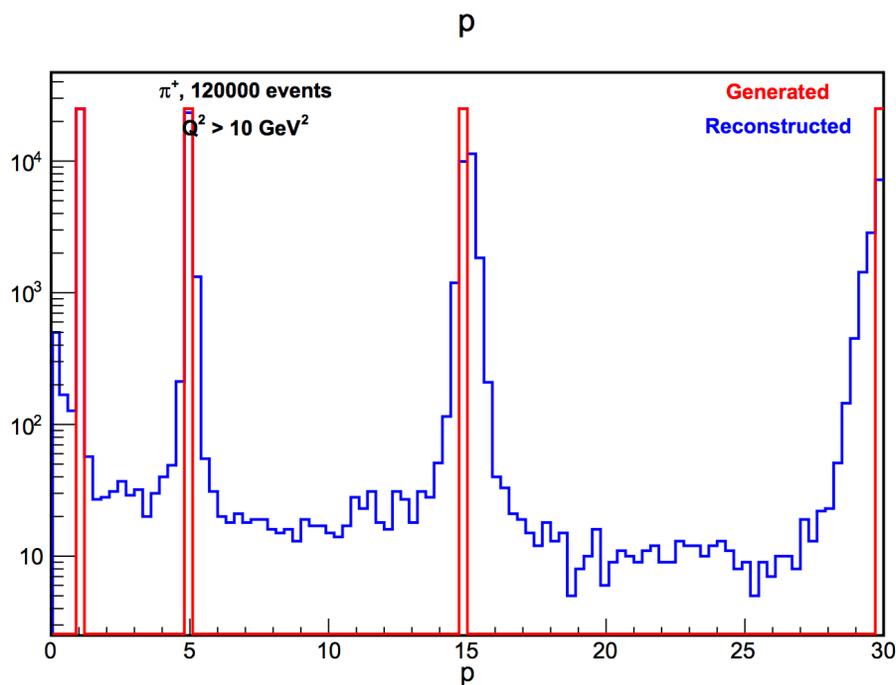
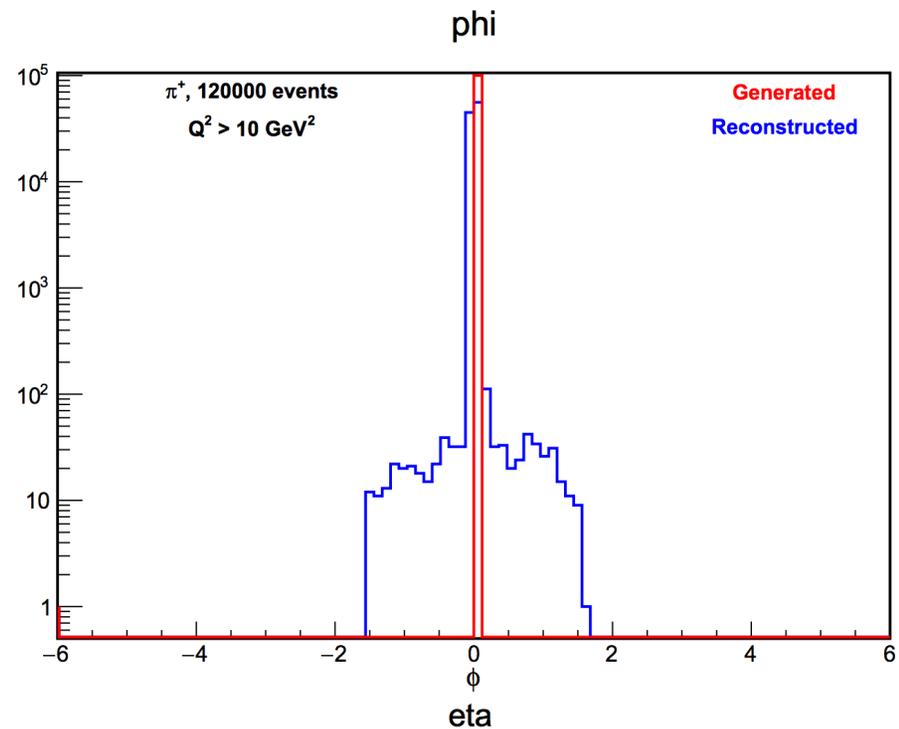




- ▶ Tagged geometry (epic_brycecanyon)
- ▶ Single pion events with fixed p
 - ◆ $p = 1, 5, 15, 30\text{GeV}$
 - ◆ $\eta = 1, 1.1, 1.2, 1.3, 1.4, 1.5$



- ▶ Tagged geometry (brycecanyon)
- ▶ Single pion events with fixed p
 - ◆ $p = 1, 5, 15, 30\text{GeV}$
 - ◆ $\eta = 1, 1.1, 1.2, 1.3, 1.4, 1.5$



- ▶ Comparison between full and fast simulation
 - ◆ Performance difference comes from the material difference (better agreement at 100GeV)
- ▶ Check the performance of updated magnetic field map and present the impact of different B field at the tracking meeting
- ▶ Beatrice generated simulation outputs for particles going around the support cone
 - ◆ Looking into the acceptance effect with truth seeding
 - ◆ Same simulation files can be used for realistic seeding study