Gamma get simulation
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• Generate gamma jet event from pythia for understanding gamma and jet direction.
  • “f + g -> f + gamma (85%)” and “f + fbar -> g + gamma (15%)” at pt > 5.0 (GeV)
• Gamma letal < 0.3
• Charged particles
  letal < 2.4
• Look azimuthal angle between primary gamma and charged particles
Charged particle distribution

Charged particles from recoil jet

![Graph 1](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAABAAAAAQA...)

- Entries: 7103
- Mean: 0.03778
- RMS: 2.433

Charged particles from others

![Graph 2](data:image/png;base64,iVBORw0KGgoAAAANSUhEUgAAABAAAAAQA...)

- Entries: 14323
- Mean: -0.02057
- RMS: 1.896
Pt distribution and cut

Blue : from recoil jet
Red : from others

Black : all
Red  : pt > 0.5
Blue : pt > 1.0

pt(charged particle) cut at $\sim 1.0$ GeV is reasonable.