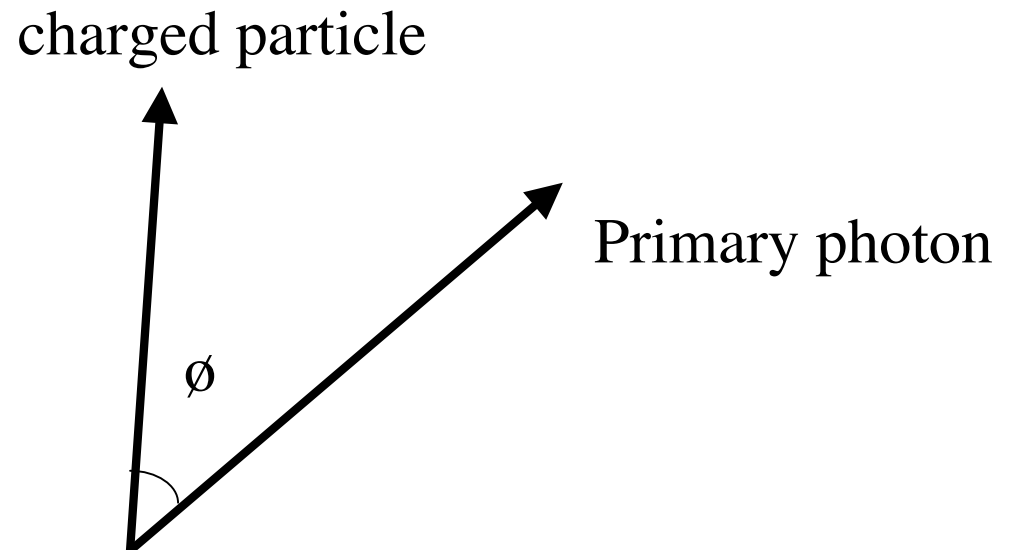


Gamma jet simulation

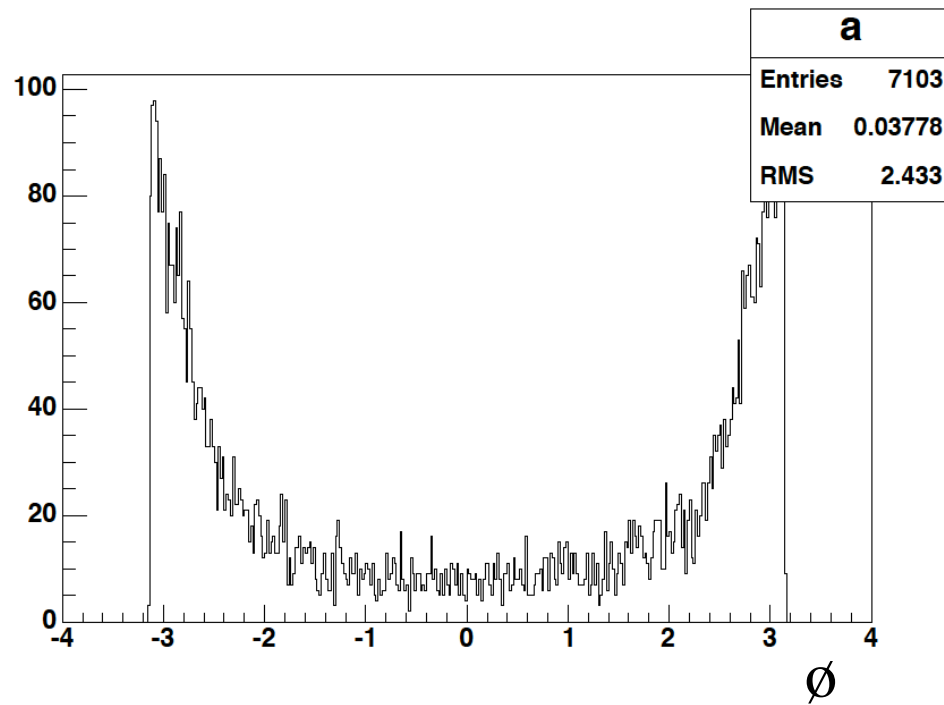
silicon meeting 2003/08/20 M.Togawa

- Generate gamma jet event from pythia for understanding gamma and jet direction.
 - “ $f + g \rightarrow f + \text{gamma}$ (85%)” and “ $f + \bar{f} \rightarrow g + \text{gamma}$ (15%)” at $p_t > 5.0$ (GeV)
 - Gamma $\text{lethal} < 0.3$
 - Charged particles $\text{lethal} < 2.4$
 - Look azimuthal angle between primary gamma and charged particles



Charged particle distribution

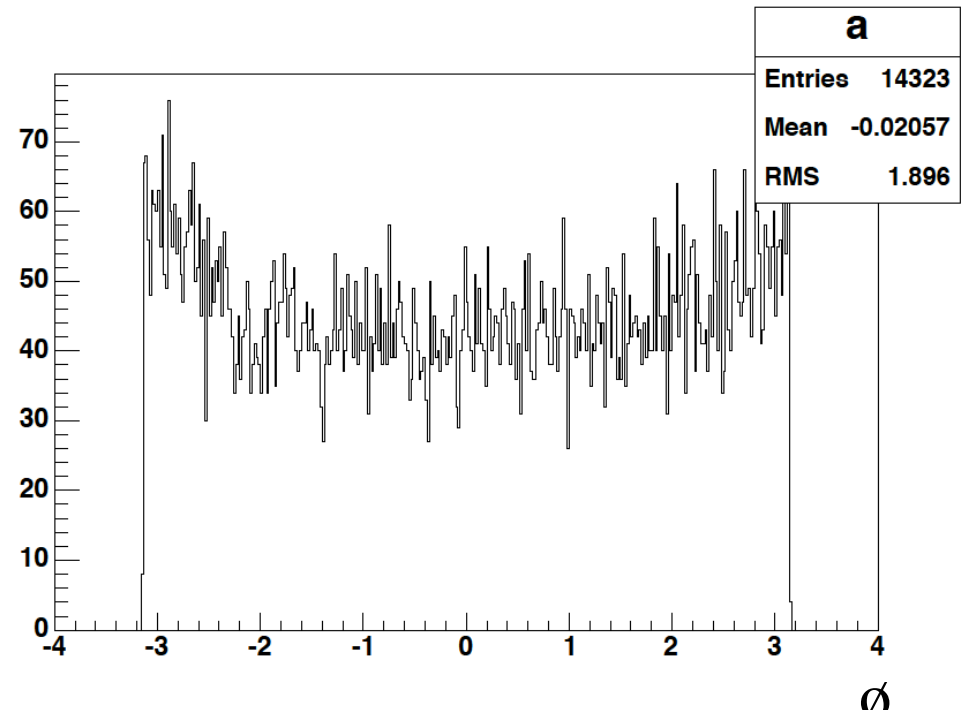
Charged particles from recoil jet



1

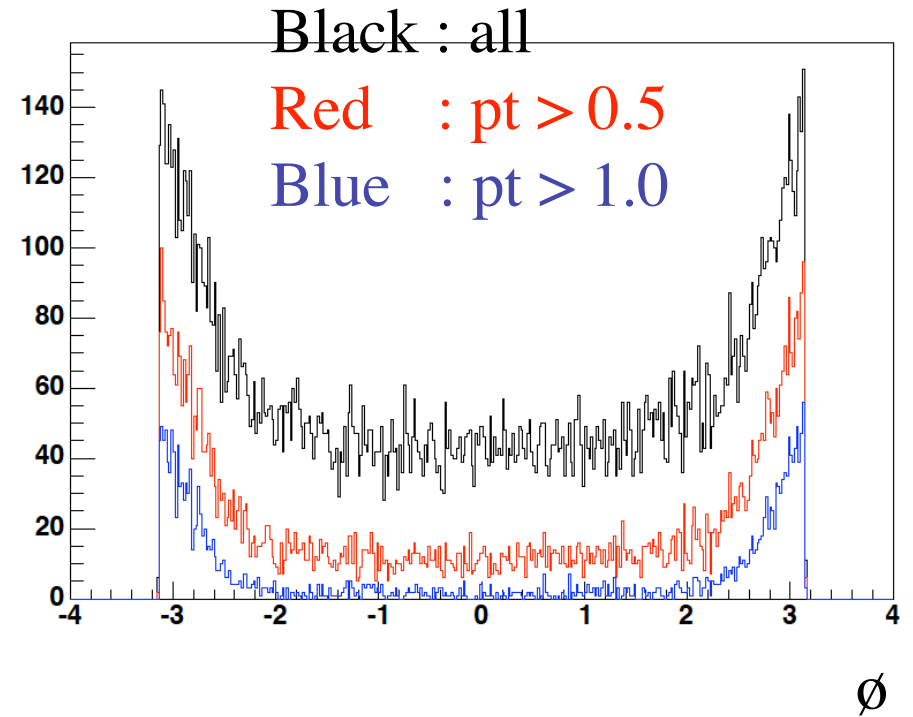
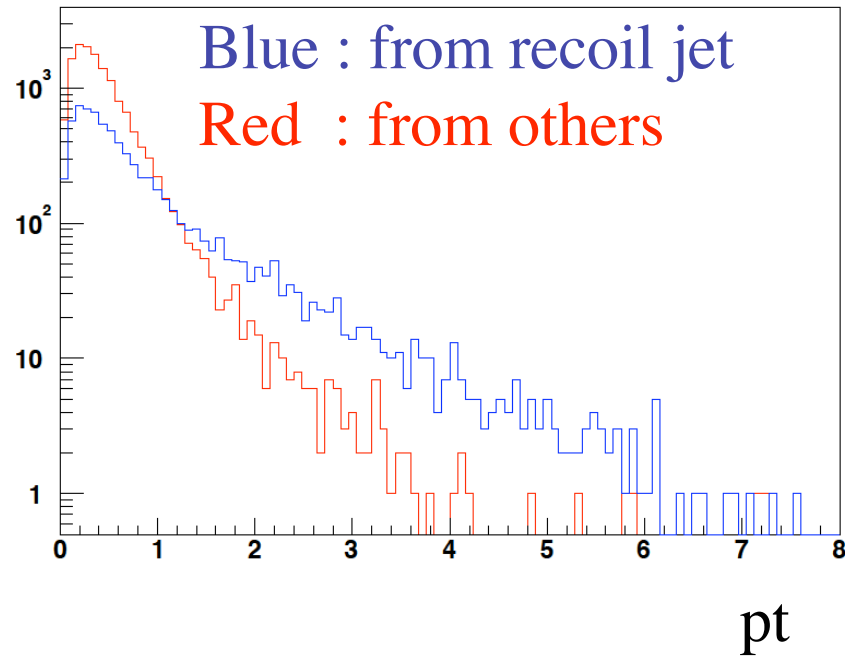
:

Charged particles from others



2

Pt distribution and cut



pt(charged particle) cut at ~ 1.0 GeV is reasonable.