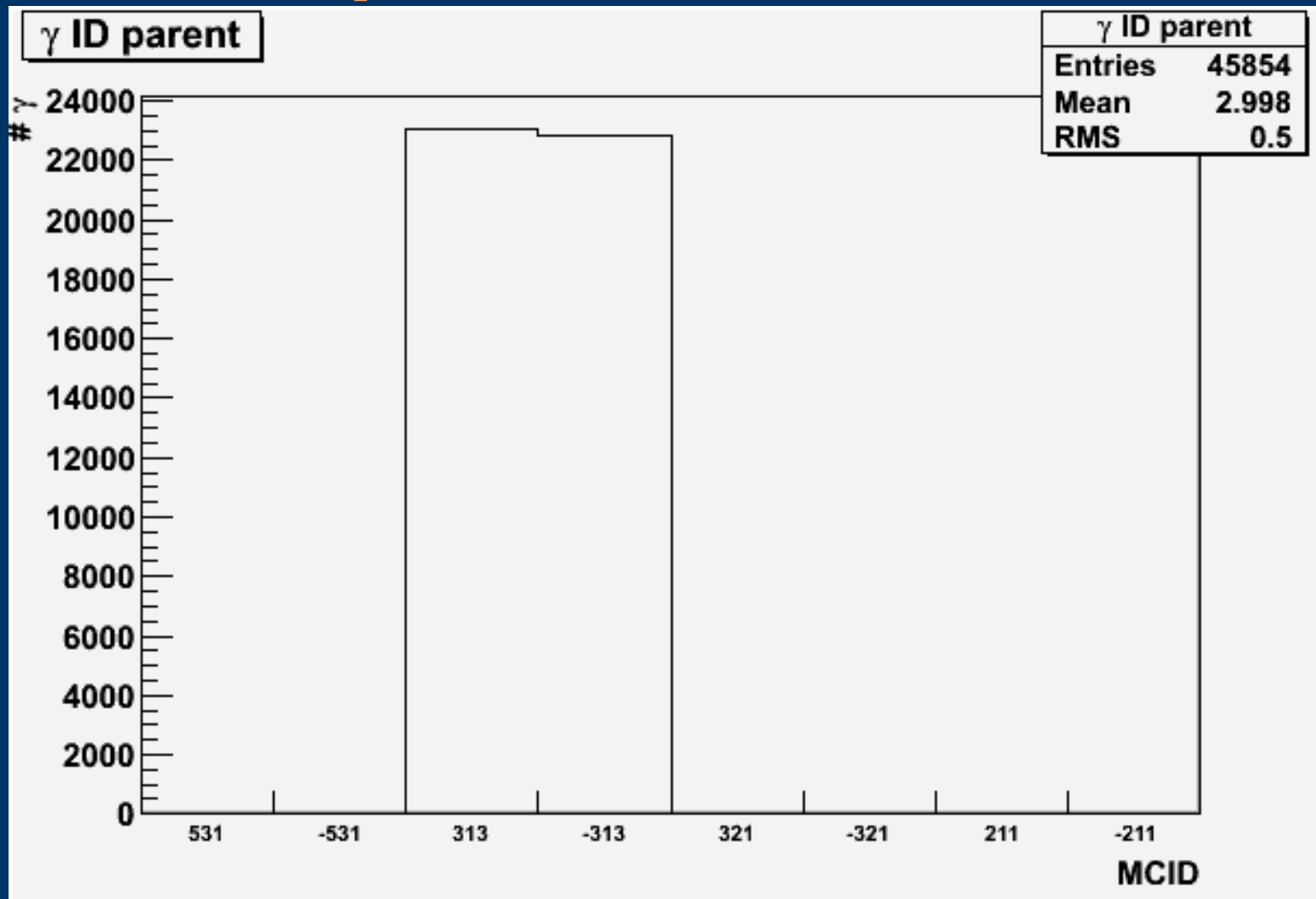


Extra update on phi studies:
Photon Radiation, the full story
Celestino Rodriguez Cobo

The photon problem

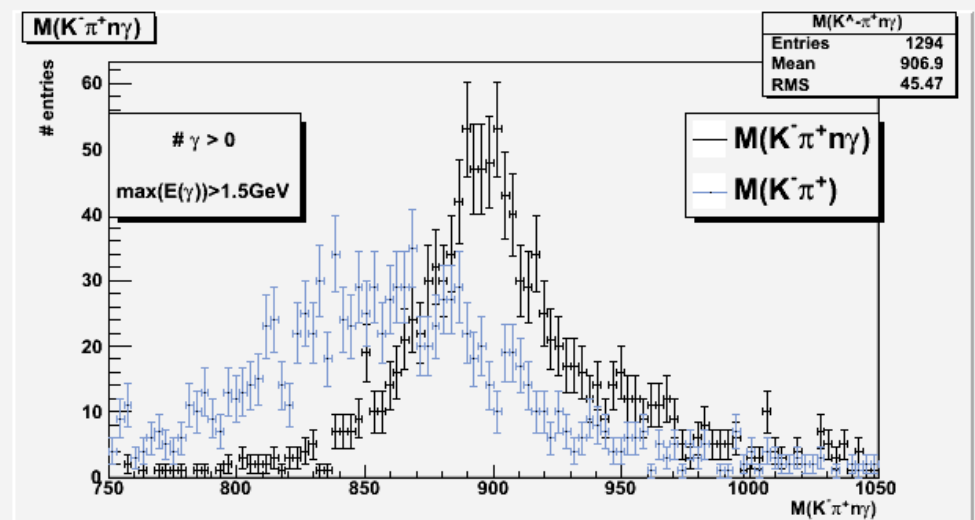
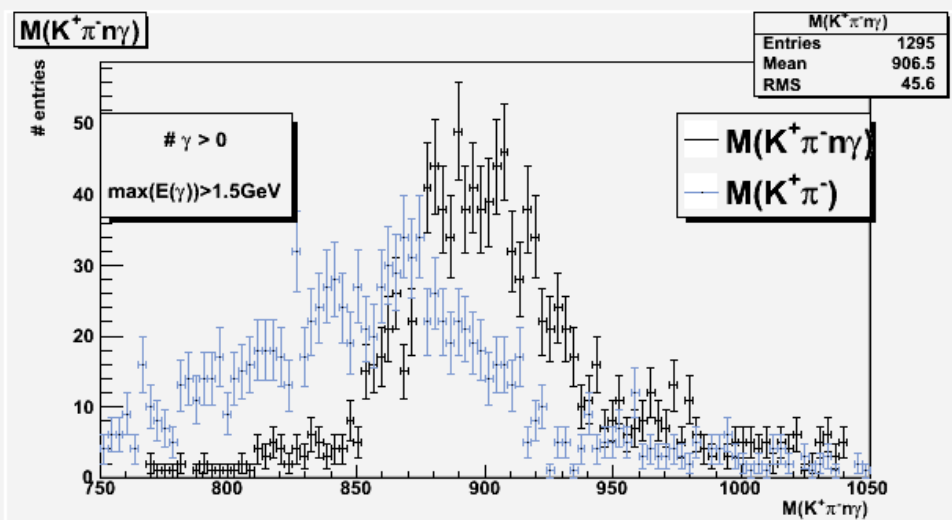
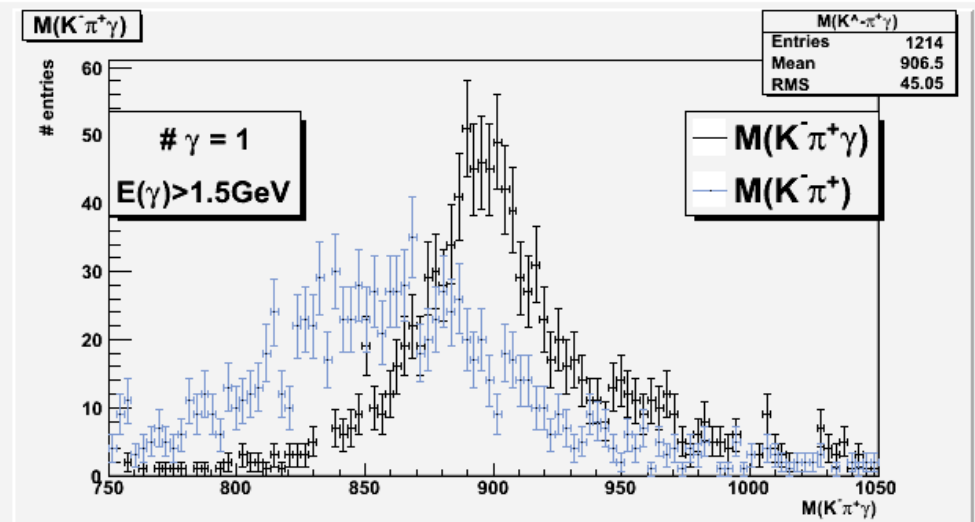
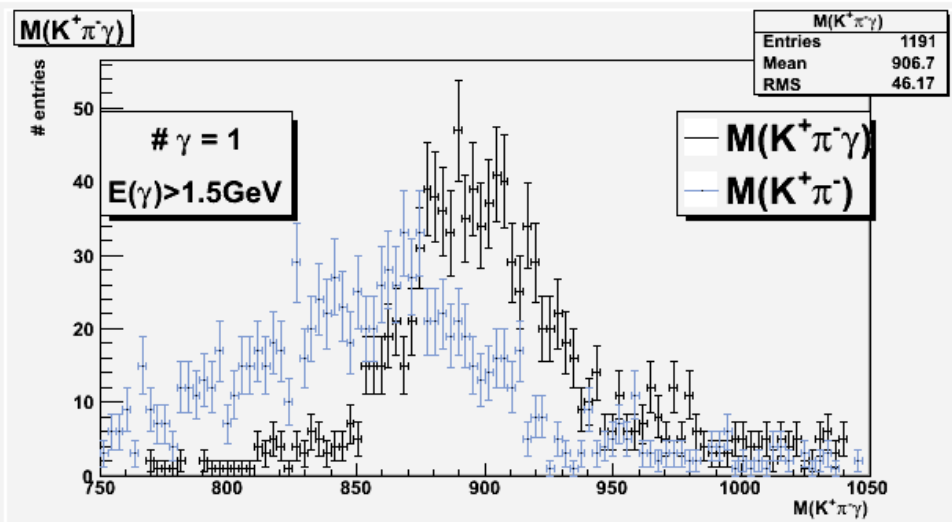
- Not all K^* decays were in pure $K\pi$ couples.
- Photons were registered.
- Not really expected.

Photon parent



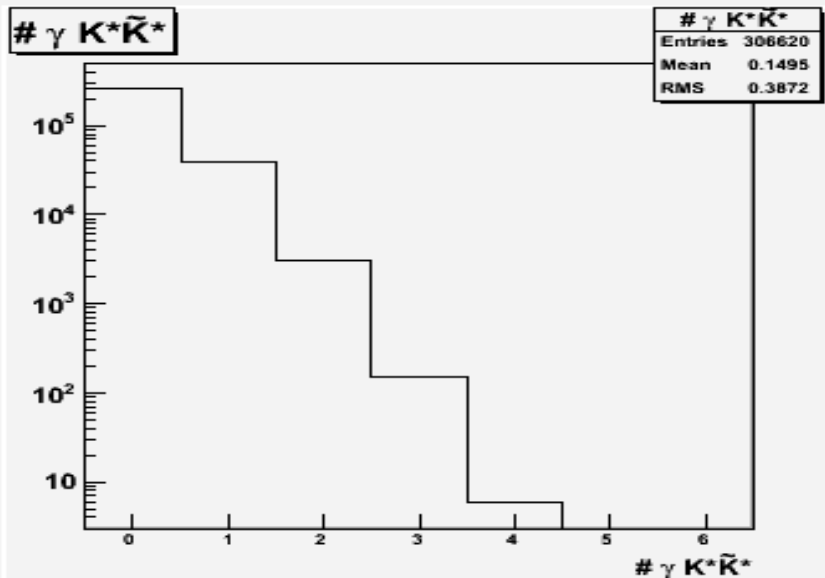
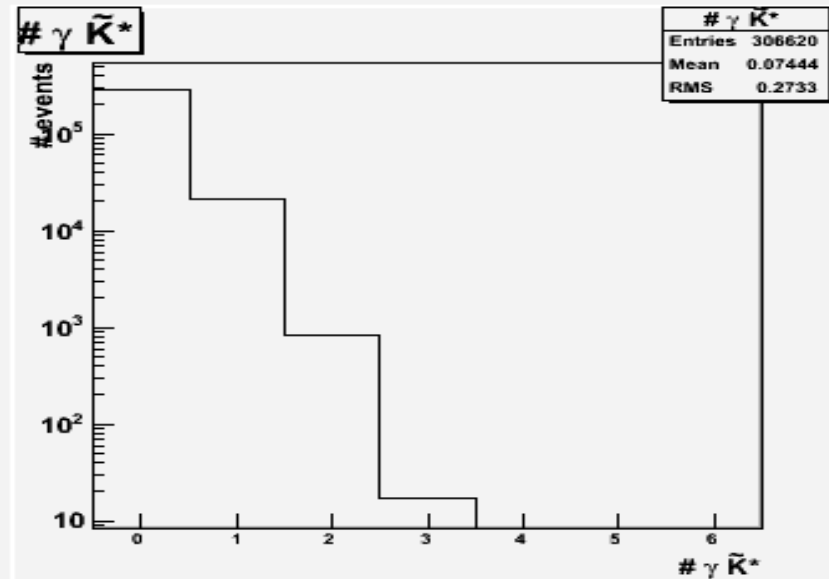
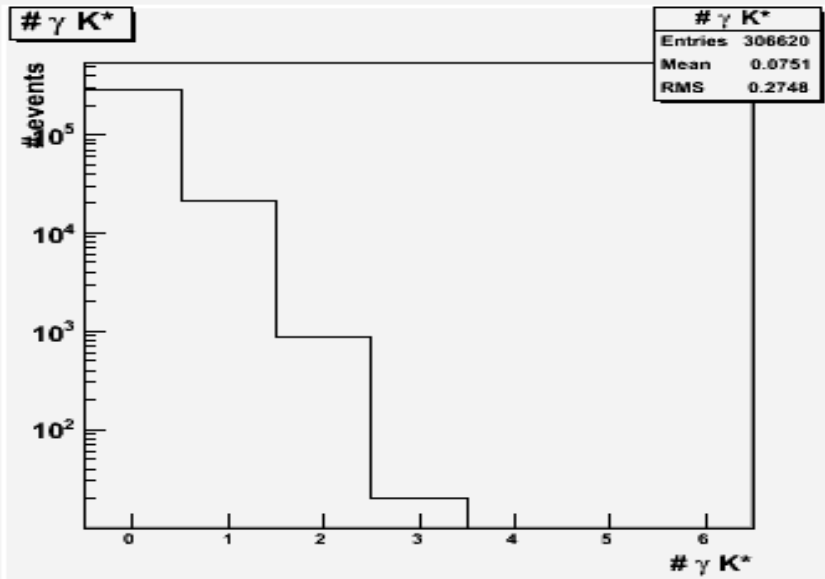
- B_s , B_s^- , K^* , K^{*-} , K^+ , K^- , π^+ , π^-

Invariant Mass of the system



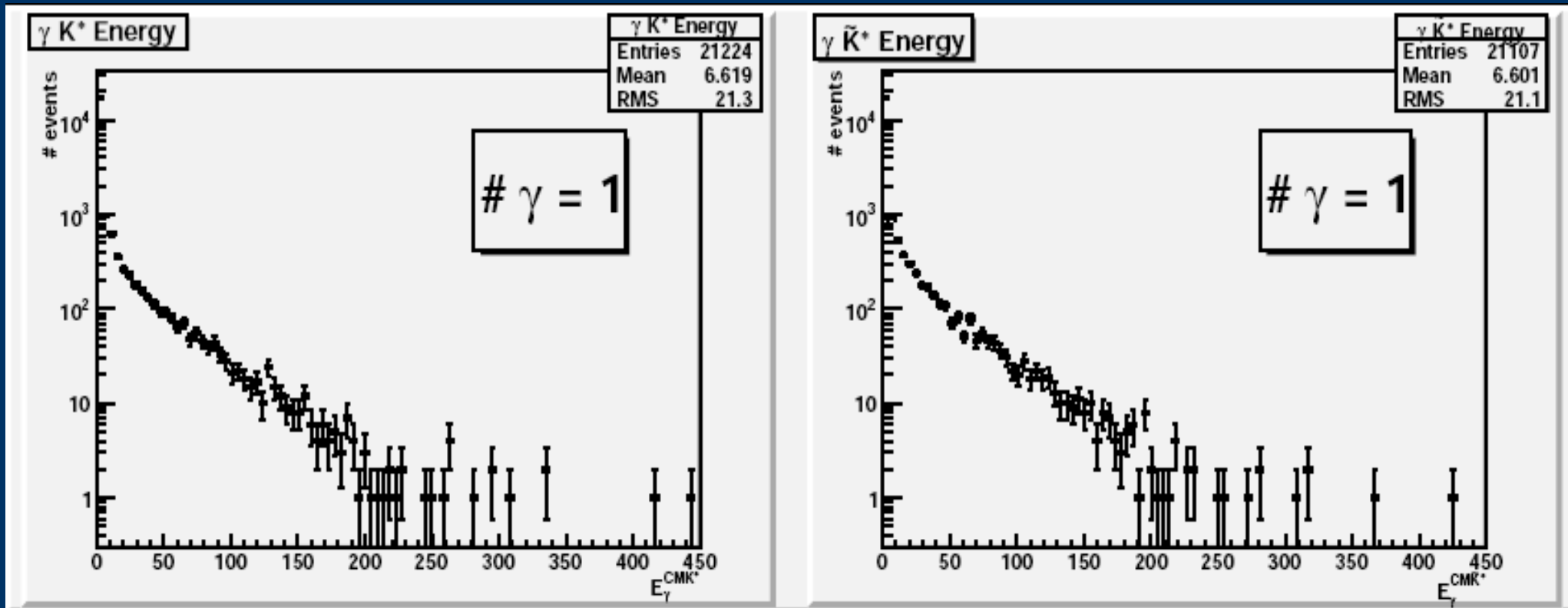
- Clear difference from with and without photons taken in account.

Photon Multiplicity



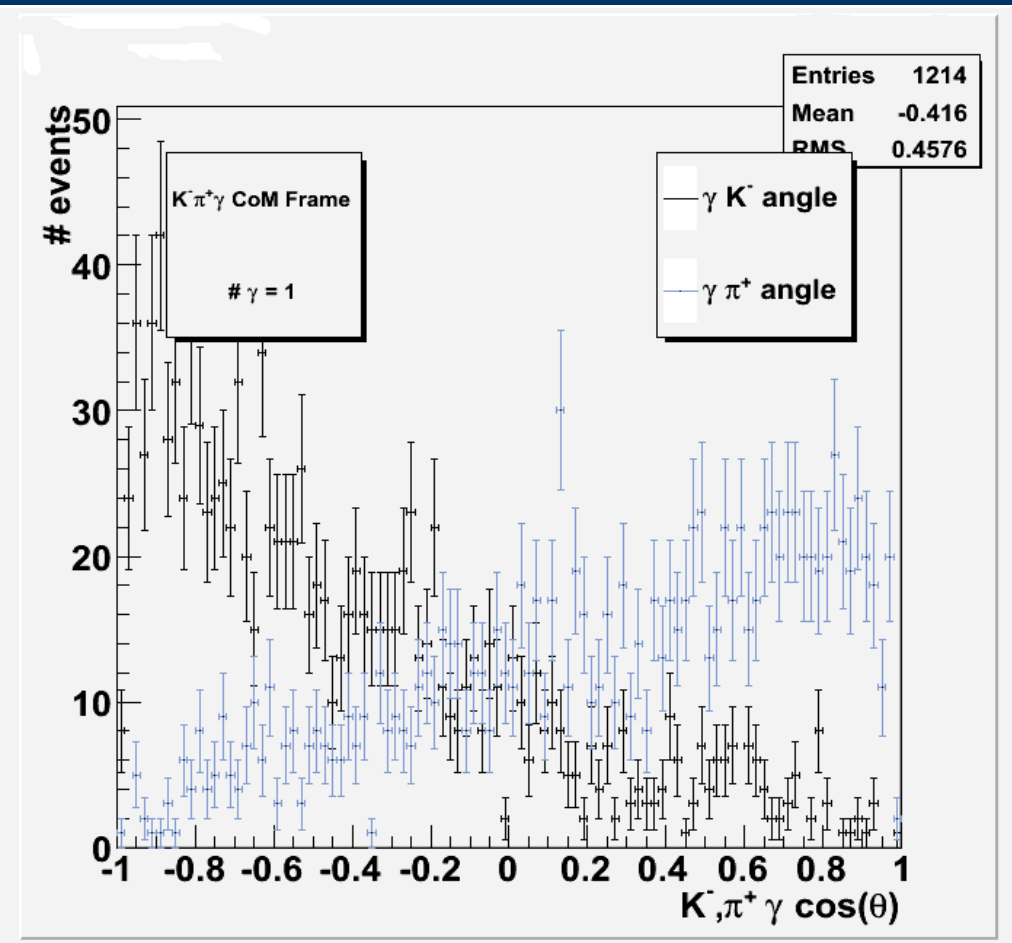
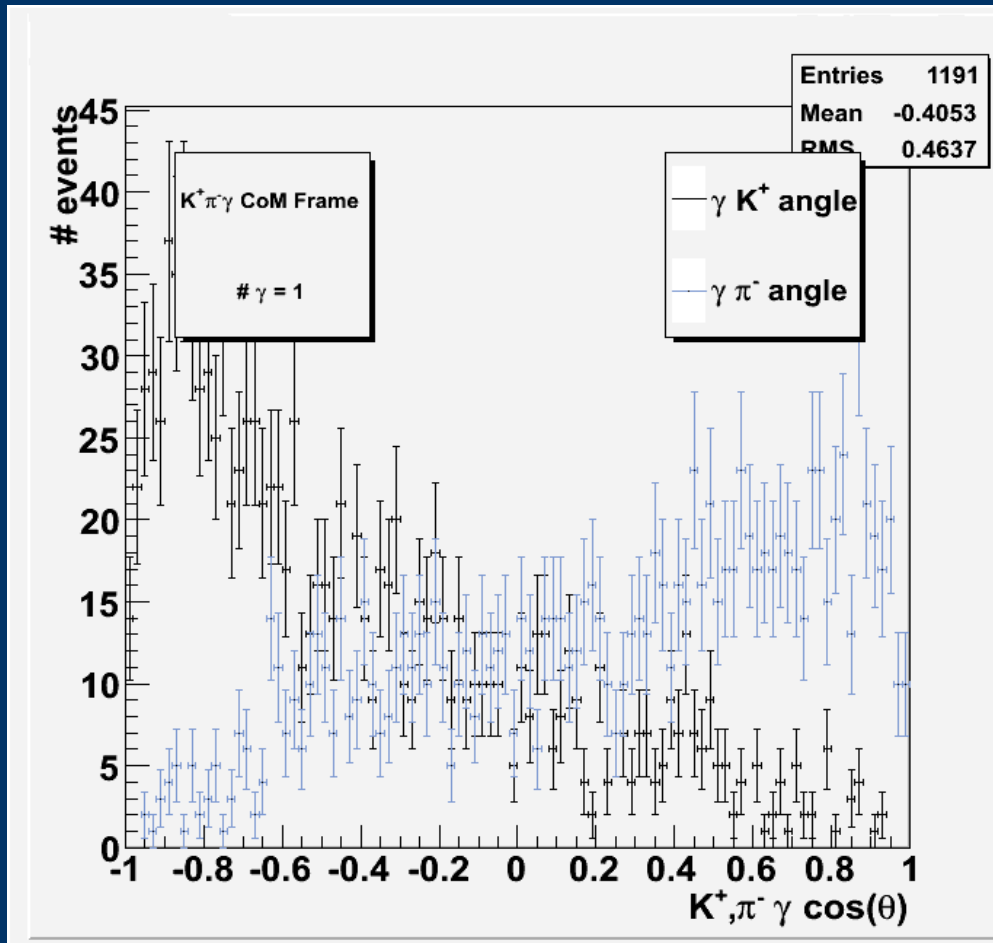
- * Up to 4 photons per couple of K^* -anti K^*
- * Up to 3 photons per K^* or anti_ K^*

Photon Energies



- They follow mainly a soft photon distribution

CoM photon angular distribution



- It is emitted in the direction of the pion
- Peak at 35° in the pion angle.