Data Sets and Analysis Methods

Data Sets

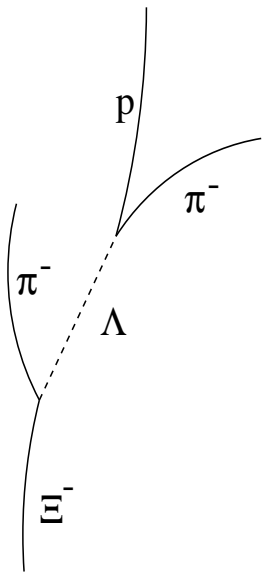
pp: 2 500 000 events $\longrightarrow$ minimum bias trigger

pPb: 820 000 events

- 350 000 events $\longrightarrow \langle\nu\rangle = 3.7$
- 470 000 events $\longrightarrow \langle\nu\rangle = 5.7$

PbPb: 400 000 events $\longrightarrow$ central (10% σ)

Analysis Methods



Ξ reconstructed by finding decay vertices

$\Xi \longrightarrow \Lambda + \pi$ (B.R. 100 %)

$\Lambda \longrightarrow p + \pi$ (B.R. 63.9 %)

Daughter particles identified using dE/dx (pp,pA)

Background subtraction on invariant mass

pp, pA:

Correction for geom.acceptance and efficiency:

VENUS $\rightarrow$ GEANT $\rightarrow$ recon.

PbPb:

Correction for geometrical acceptance (GEANT)

Correction for efficiency by embedding