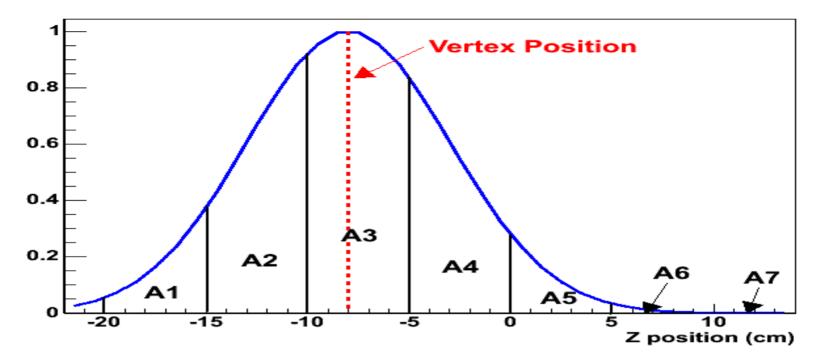
Acceptance weighting in dAu,pp at forward

Issues

- Acceptance correction (weighting) factor is a function of vtx z
- vtx z is known with a limited accuracy σ(bb)<σ(inel)<σ(track) at forward

- cannot avoid using wrong acceptance map due to wrong z
 Proposal
- Assume z_{track} is "aligned" with z_{inel} and z_{bb}
- Start with event with FS track, then
- 1) If there is a BB vtx at z=xcm in -20cm< z_{bb} <20cm acceptance weight = $\Sigma(acc map*weight with \sigma_{bb})$
- 2) If no BB vertex, then use Inel vtx at z=ycm in -20cm<z_{inel}<20cm acceptance weight = $\Sigma(acc map*weight with \sigma_{inel})$
- Step 1) can be skipped



• Acc Weight = $\sum_{i=1}^{8} [(\text{acc. weight from map})_i \bullet (\frac{A_i}{\sum A_i})]$

($\sigma_{inel} < 4 \sim 6^* \sigma$ of beam distribution)