Group Meeting update: Fixed Target Analysis
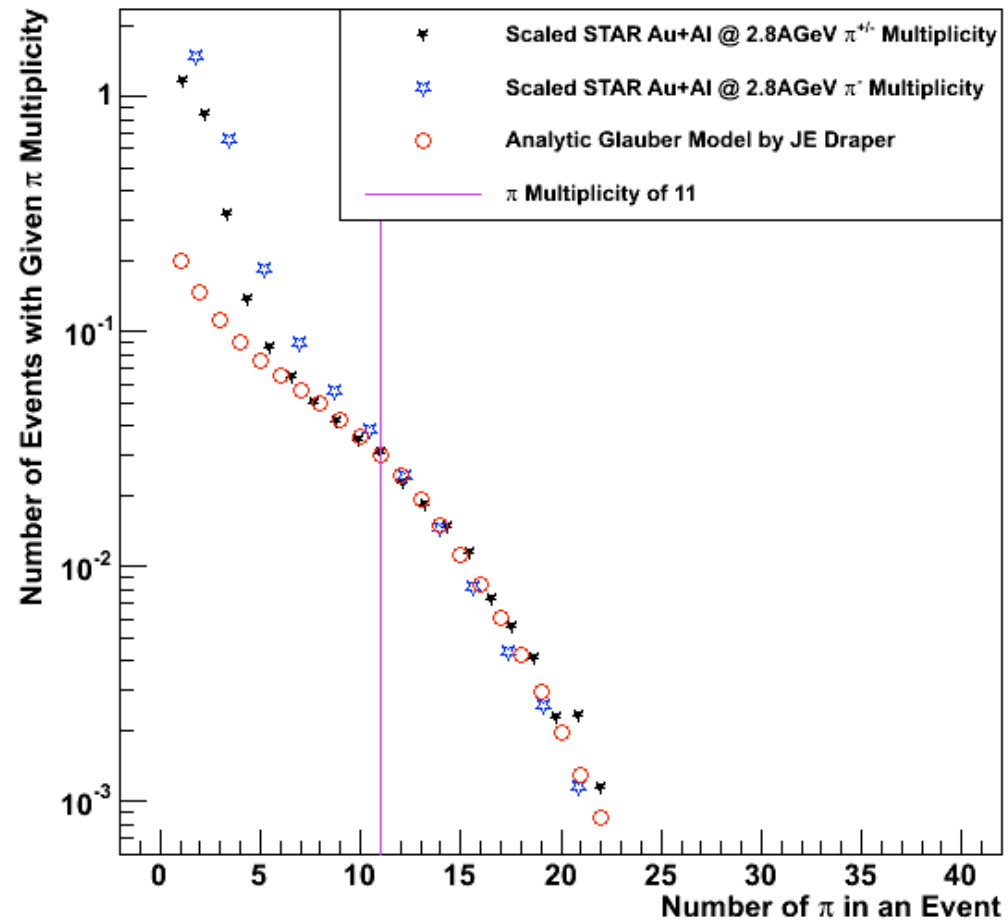
Brooke Haag
6.27.12

5 GeV test run update

- Need to run offline data analysis. Not looking good ... yet?

Main Goal Underway: Defining a centrality bin

Standard Beam Pipe Event Cuts

- nPrimaryTracks > 2 (start with a vertex that has at least 2 primary tracks ...)

- 2 cm < rVertex < 5 cm (vertex reconstructed outside the radius of the beam pipe)

- 150 cm < |zVertex| < 200 cm (select interactions with Al beam pipe)

- TPC Direction: p_z*z < 0 (select an event on the edge of the TPC traveling toward the center)

Latest Run Over 4.5 Au+Al Data without "refMult" cut :

- 175 jobs; 128 finished

  - of those that failed, the last event looked like:

    ——————— Processing Event : 414300 ———————-
    StMuDstMaker:INFO – *** StMuDstMaker::Make() == StOK(0)
    ***St_db_Maker:INFO – *** St_db_Maker::Make() == StOK(0) ***
    evicting 21721 ?   05:24:15 root4star
    StMuDstBeampipeAnalysisMaker::Make() starting…
    Num. of primary tracks: 388
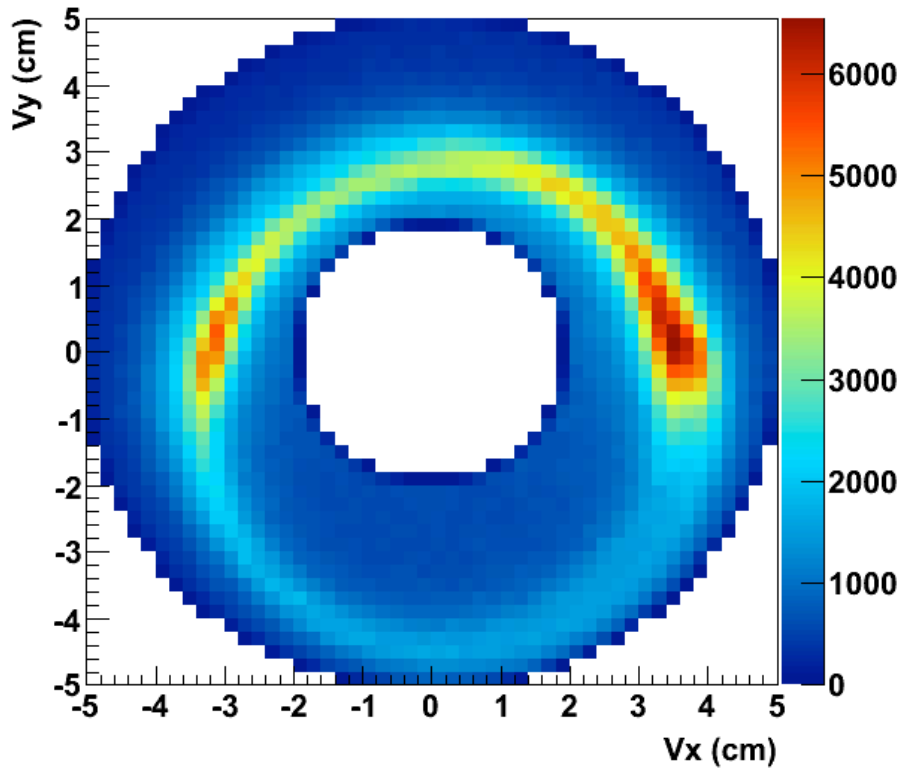
  - Another issue: some AuAu200 files were used in 2 jobs (not included in final analysis):
    //xrdstar.rcf.bnl.gov:1095//home/starlib/home/starreco/reco/
    AuAu200_production_2011/FullField/P11id/2011/163/12163024/
    st_physics_12163024_raw_1010001.MuDst.root 8527

  - ~ 3M beam pipe events in 4.5 Au+Al dataset

QA plots

based on extrapolation from
finished jobs, there are
~3 M Au+Al events

xy Vertex position after cuts

zVertex after cuts

nPi

htemp	
Entries	2207324
Mean	4.549
RMS	7.828