dN/dη for d+Au
(with much credit going to Hiro)

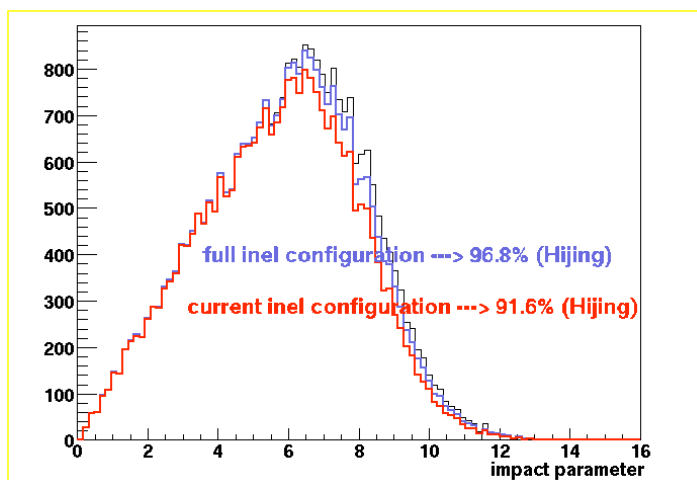What can we achieve?…

What have we achieved?...

The inelasticity counters give a pretty good min-bias trigger…

full inel configuration ---> 96.8% (Hijing)

current inel configuration ---> 91.6% (Hijing)

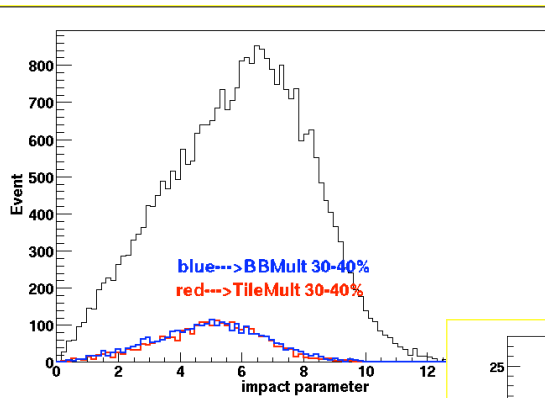**A cut on Tile multiplicity will only roughly select an impact parameter range…**
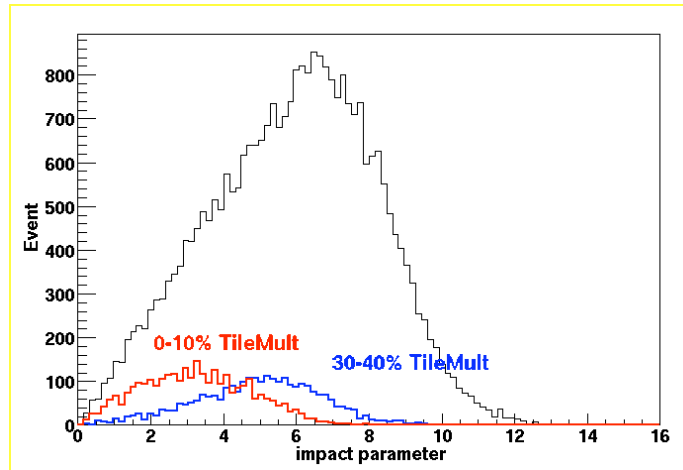
6/10/03   d+Au multiplicity

This is also the case if we use the BB (left) multiplicity…

6/10/03   d+Au multiplicity

2

Slide 1

Event axis with 10^4, 10^3, 10^2, 10, 1 on y-axis, N_{part} on x-axis (0 to 30+)

TileMult 0-10%

Similarly, we can only roughly establish a range of $N_{part..}$.
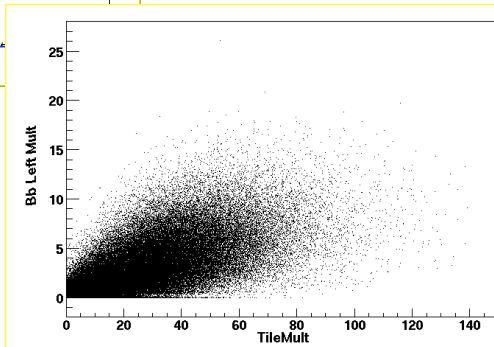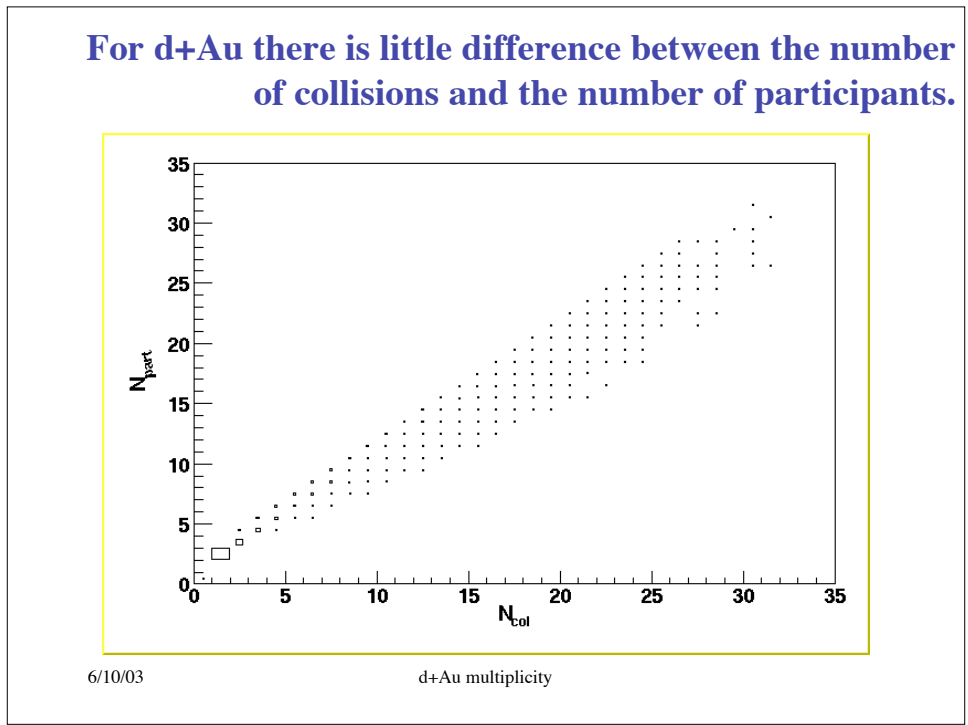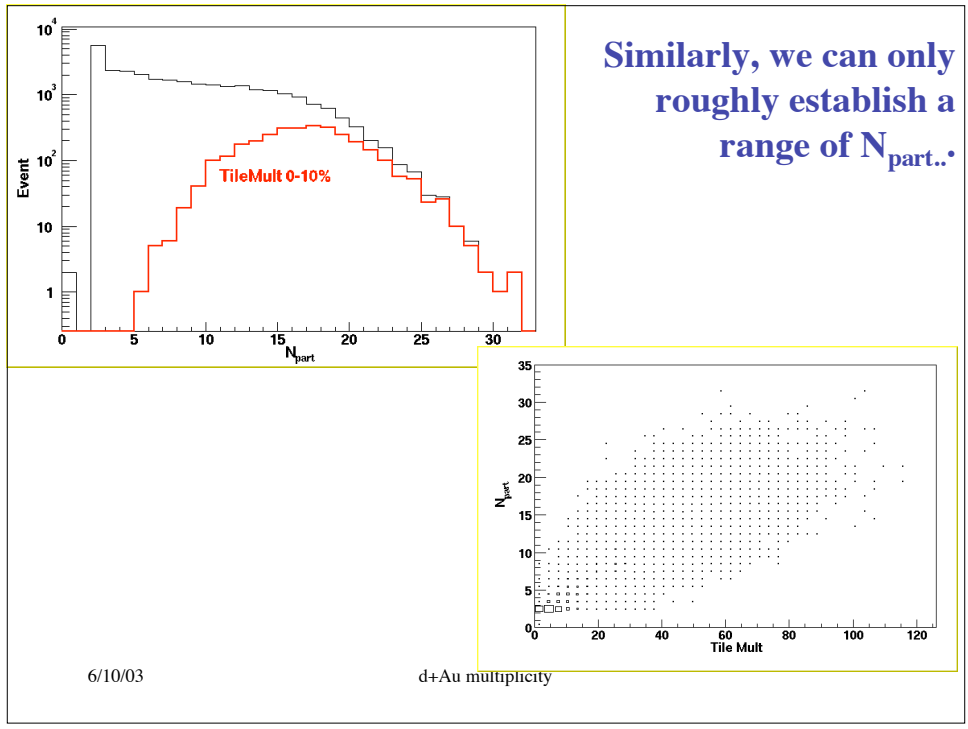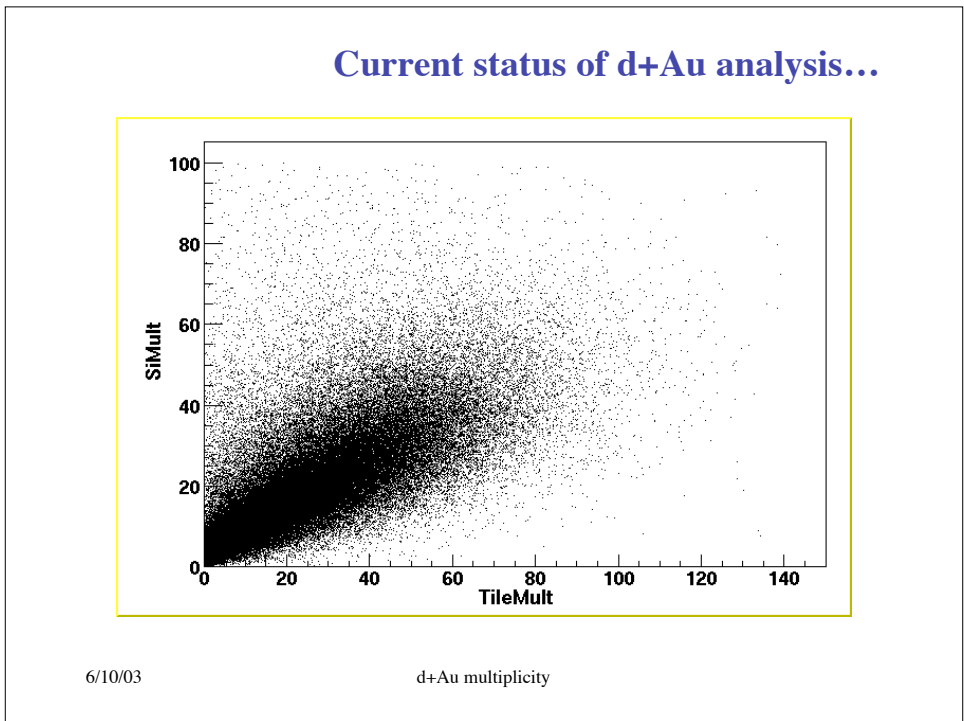
N_{part} vs Tile Mult scatter plot (0 to 120)

6/10/03   d+Au multiplicity

Slide 2

For d+Au there is little difference between the number of collisions and the number of participants.

N_{part} vs N_{col} scatter plot

6/10/03   d+Au multiplicity

The Left ZDC might help in selecting very peripheral events…

6/10/03   d+Au multiplicity

Current status of d+Au analysis…

6/10/03   d+Au multiplicity
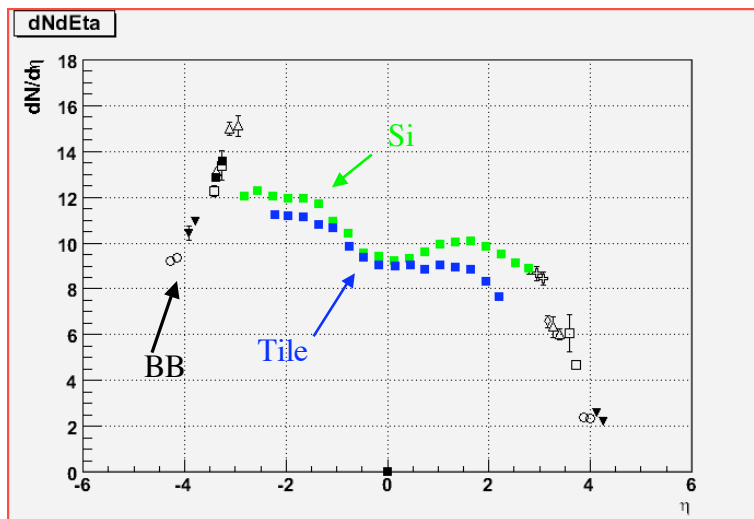
4

dN/dη (0-10% central)

dNdEta

6/10/03   d+Au multiplicity
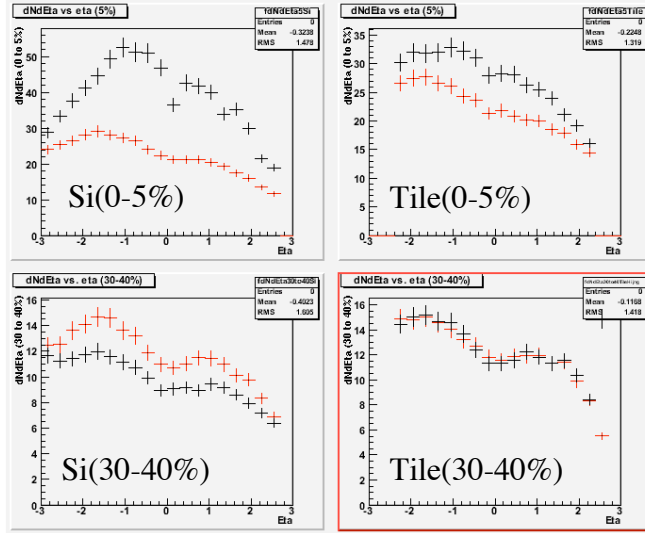
dN/dη (40-50% central)

dNdEta

6/10/03   d+Au multiplicity

However, there is reason to believe we need to be more careful with our Landau tails…

Black: GEANT simulation passed through analysis programs…

Red: Hijing input distributions…

Si(0-5%)

Tile(0-5%)

Si(30-40%)

Tile(30-40%)

6/10/03   d+Au multiplicity