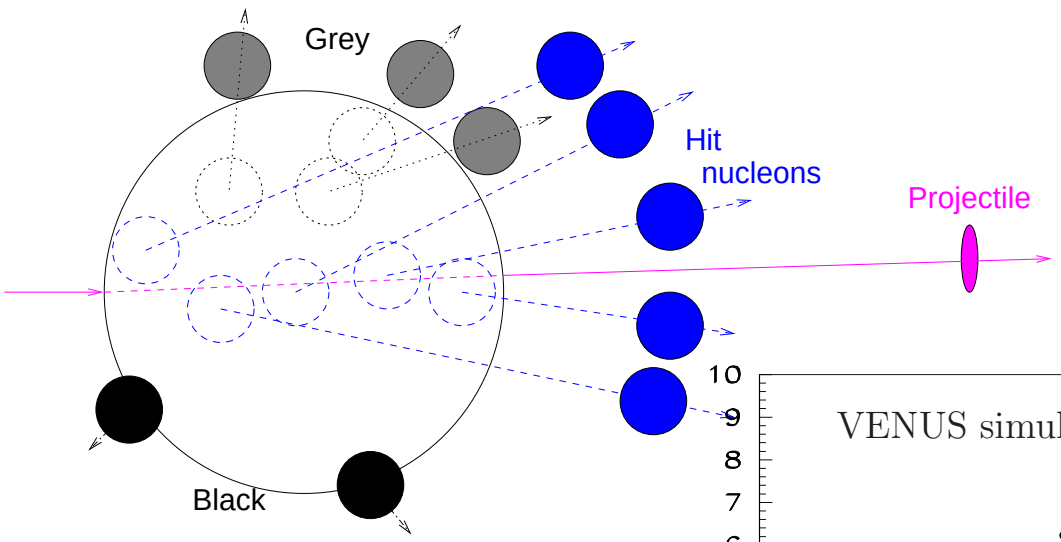
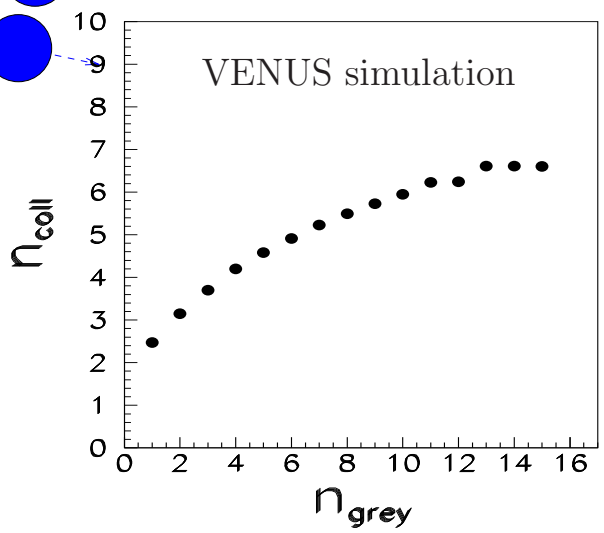
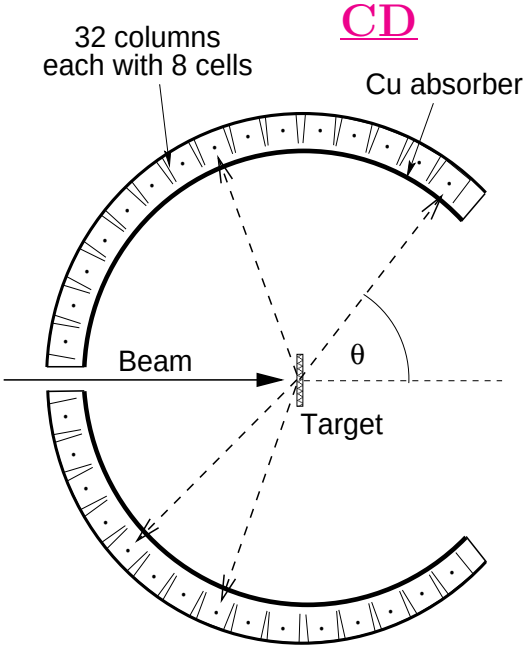
Centrality determination in pPb



- grey: $0.15 < p < 1.0$ GeV/c
- black: $p < 0.15$ GeV/c

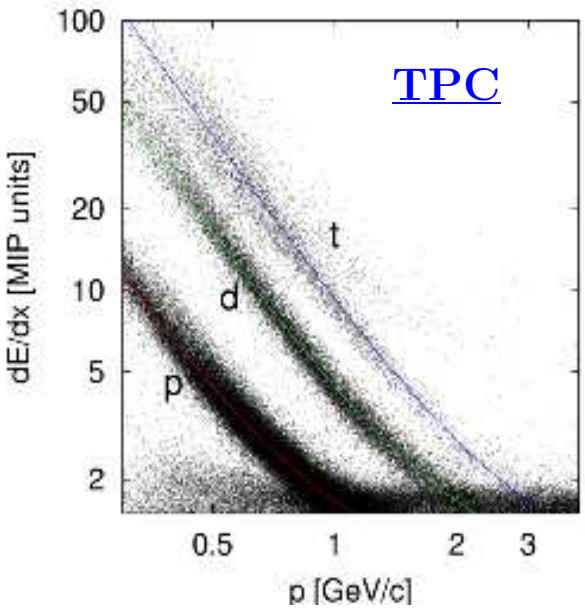


CD



- Cu absorber 200 μ eliminates black protons
- Charge amplitude cut at 3·MIP rejects fast particles

TPC



Slow particles, cut on dE/dx takes pions and electrons out