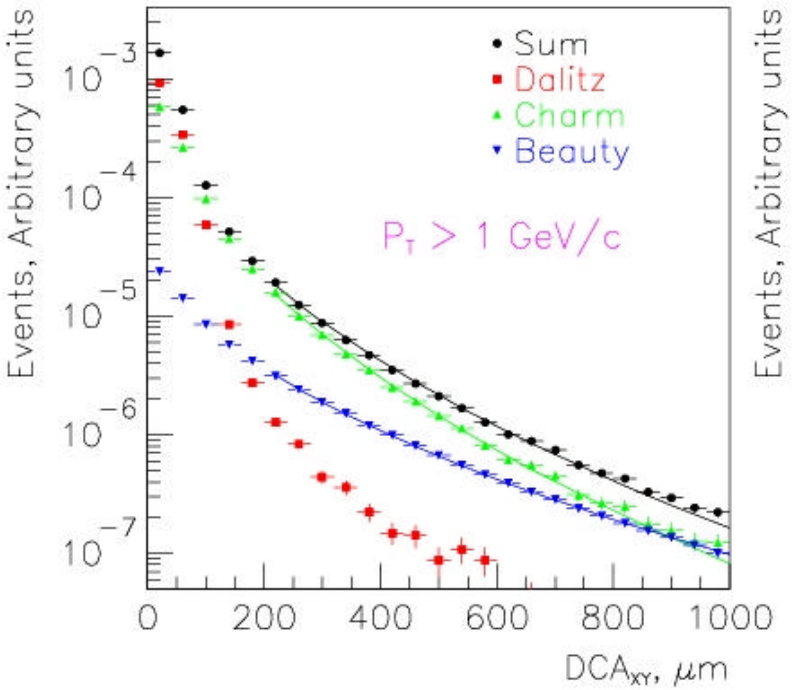
“Gap” Talk

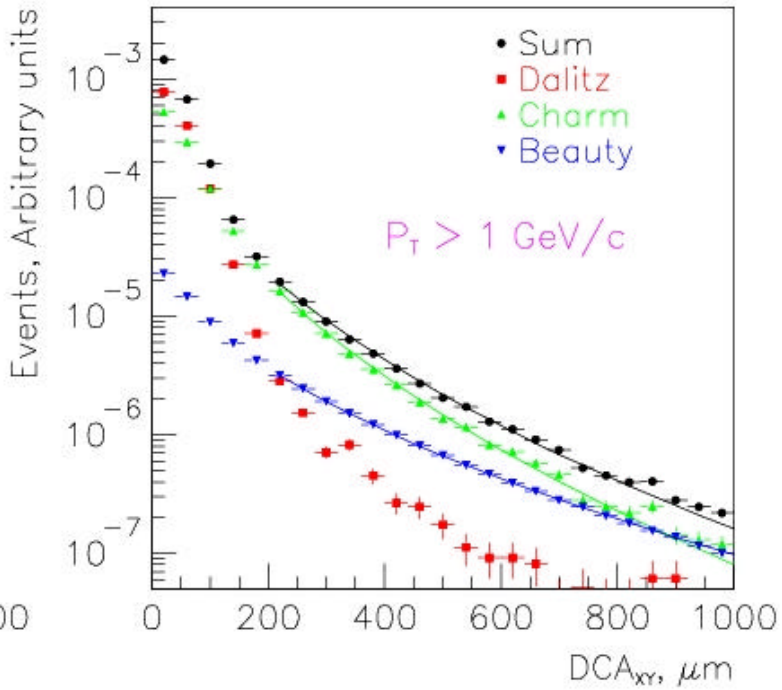
- The following are plots from the LOI
  - questions were raised during DC/EC review
- Goal is
  - decide changes that should be included in proposal
  - identify who can/will do the work

Semi-Leptonic (e^- from charm @ low-pt)

1%



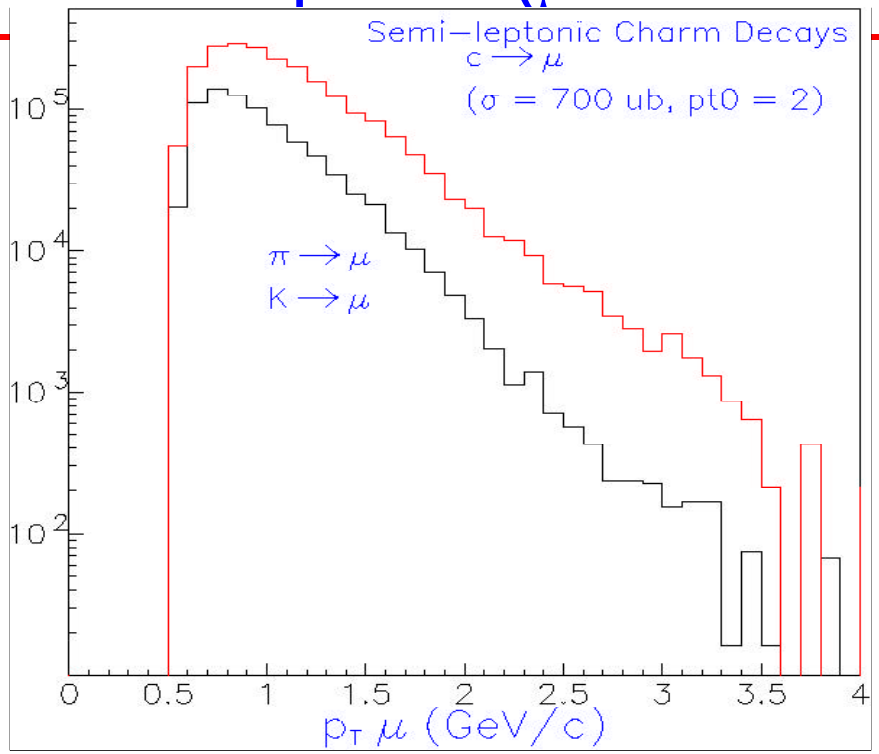
2%



several other pt ranges

1) use Frawley luminosities
2) state pt range of D, given pt range of e from charm
3) currently for p+p, need to state Au+Au performance?
4) fold pt range back into x-range
5) statement of how this improves existing measurement

Semi-Leptonic (μ^- from charm)

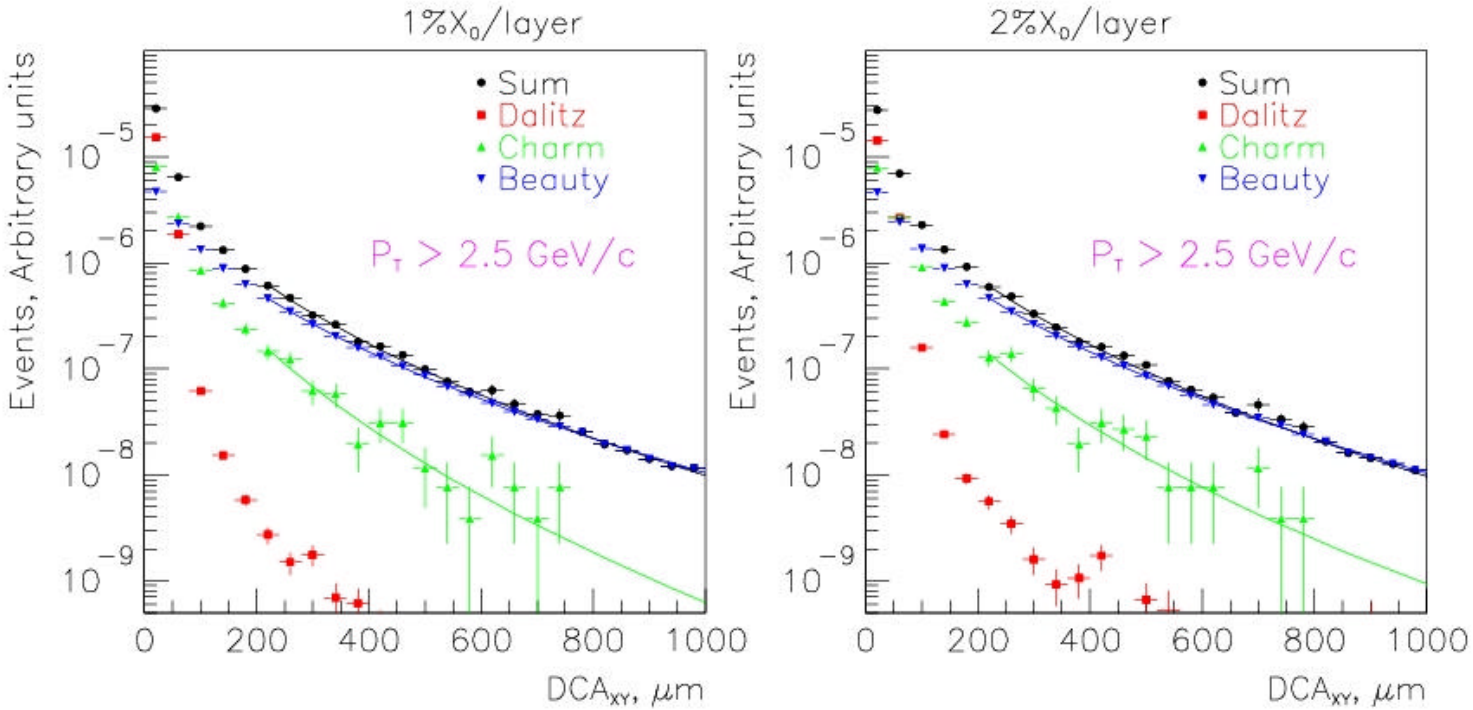


μ within 1cm of collision

Tasks

1) use Frawley luminosities
2) state pt range of D, given pt range of μ from charm
3) currently for p+p, need to state Au+Au performance?
4) D+ $\bar{D}$ =>e+μ , benefit?
5) fold pt range back into x-range

Semi-Leptonic (e^- from beauty)

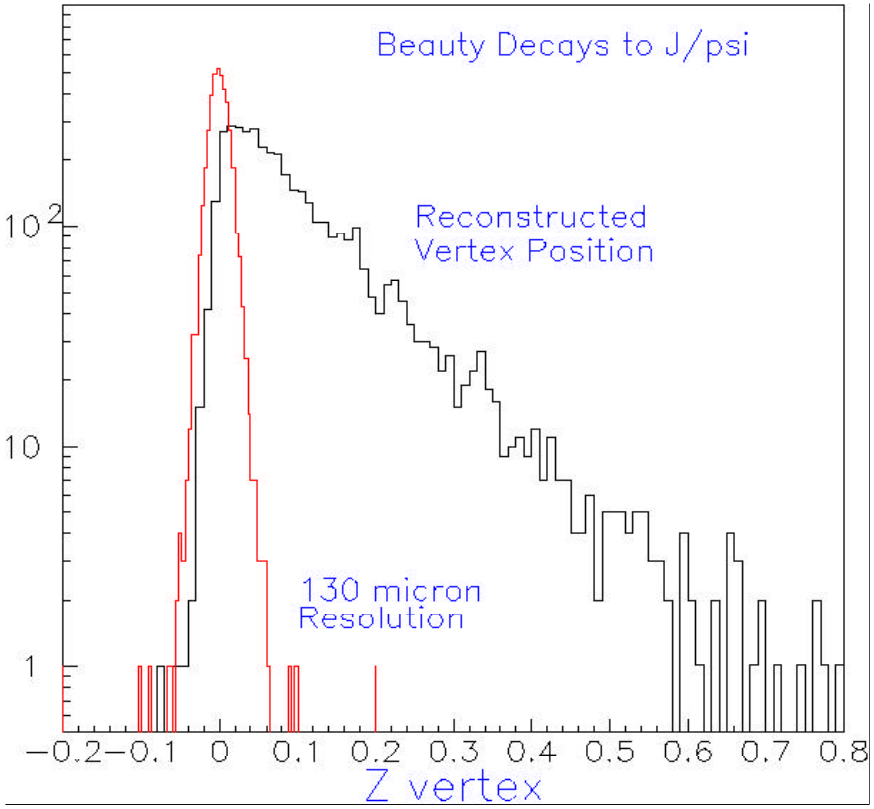


several other pt ranges

Tasks

1) use Frawley luminosities
2) state pt range of B, given pt range of e from beauty
3) currently for p+p, need to state Au+Au performance?
4) fold pt range back into x-range

J/psi from beauty



Tasks

1) use realistic B and primary J/psi yields
2) use Frawley luminosities
3) currently for muons, what about central arms?
4) fold pt range back into x-range

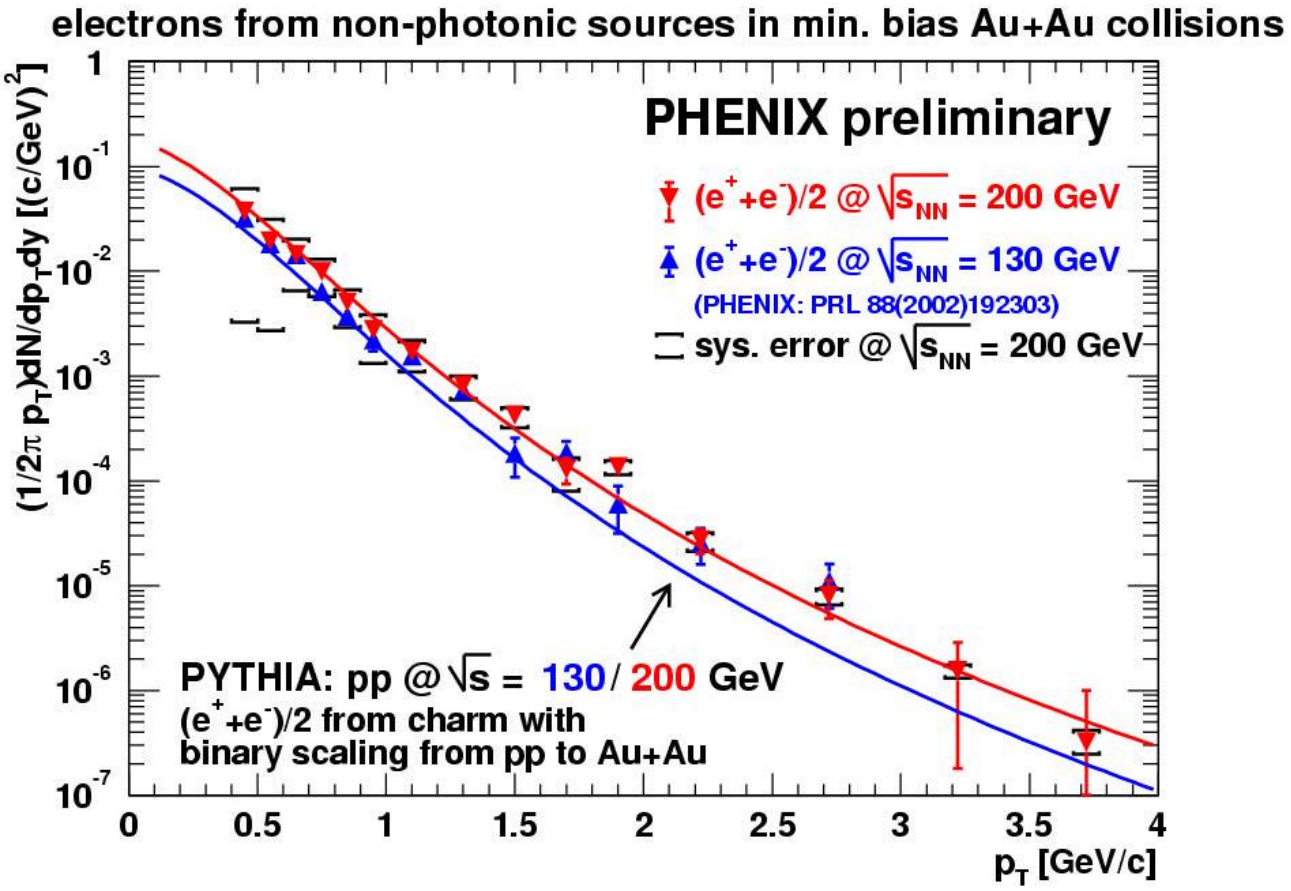
gamma+jet

I don’t have any plots :(

1) documentation and performance of jet-angle algorithm
2) how much does this help determination of x-range?
   - c.f. gamma by itself

Backups

PHENIX QM02


electrons from non-photonic sources in min. bias Au+Au collisions
PHENIX preliminary
(e+ +e-)/2 @ √sNN = 200 GeV
(e+ +e-)/2 @ √sNN = 130 GeV
(PHENIX: PRL 88(2002)192303)
sys. error @ √sNN = 200 GeV
PYTHIA: pp @ √s = 130 / 200 GeV
(e+ +e-)/2 from charm with
binary scaling from pp to Au+Au
(1/2π pT)dN/dpTdy [(c/GeV)2]
pT [GeV/c]

Electron pt Spectra from D