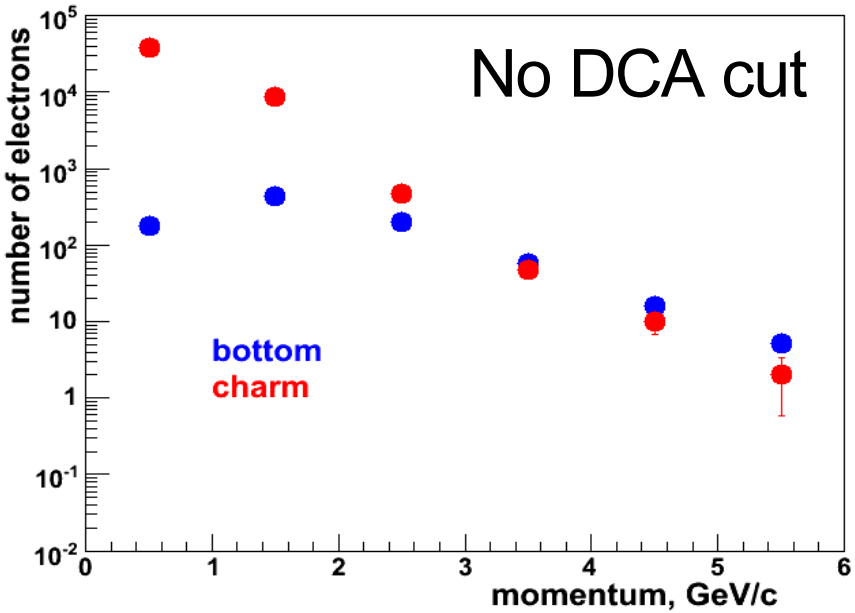
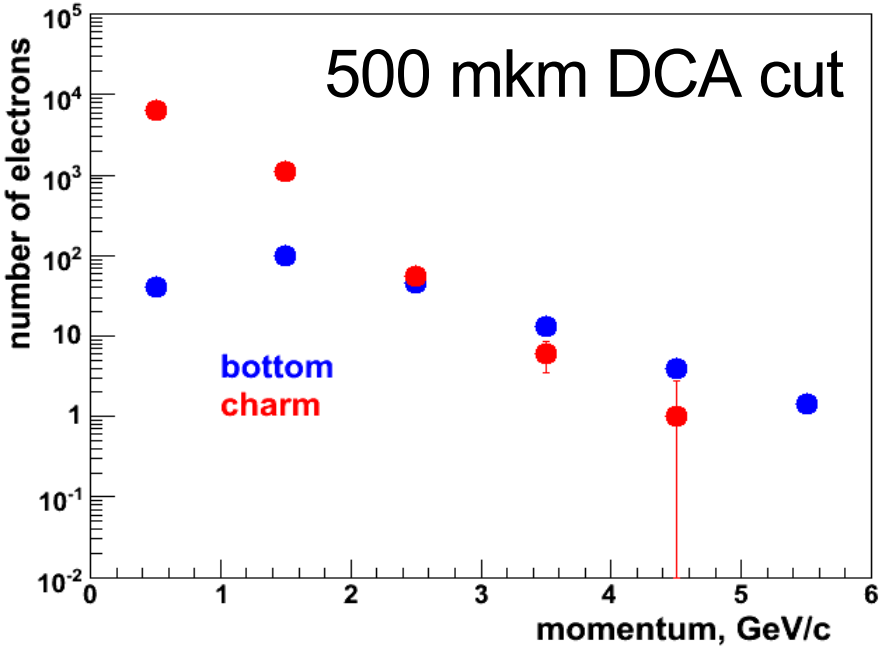
- Background for bottom/charm electrons

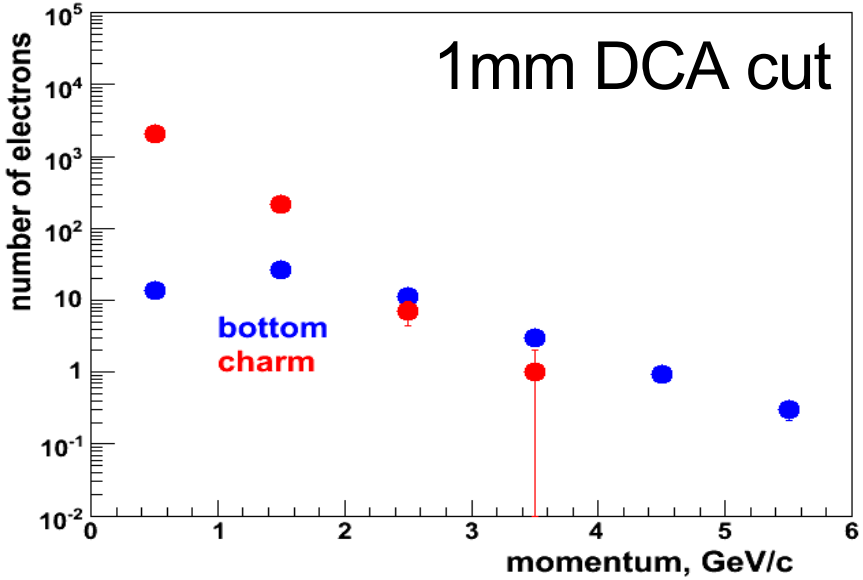
- Merged Hijing/B-meson DCA distribution

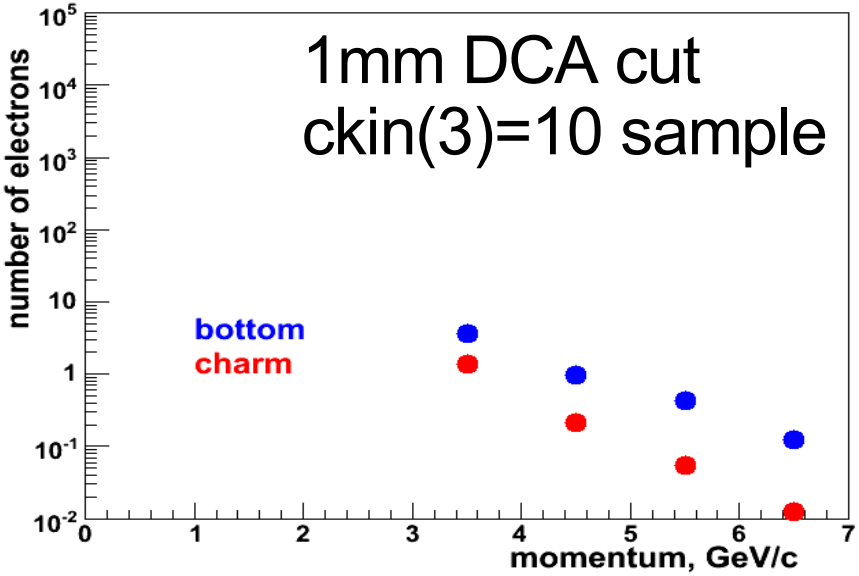
Sasha Lebedev, ISU

B/D electrons vs P_T for large DCA cuts





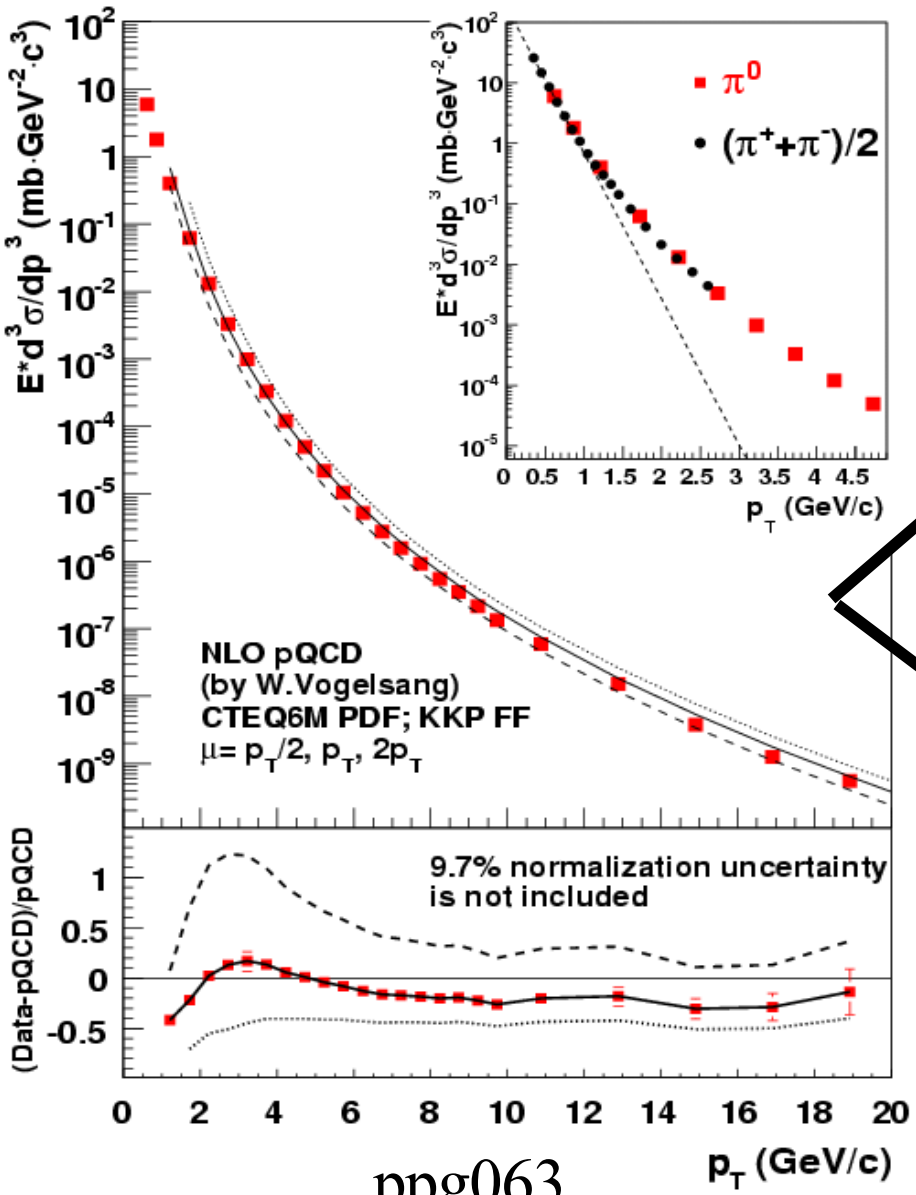




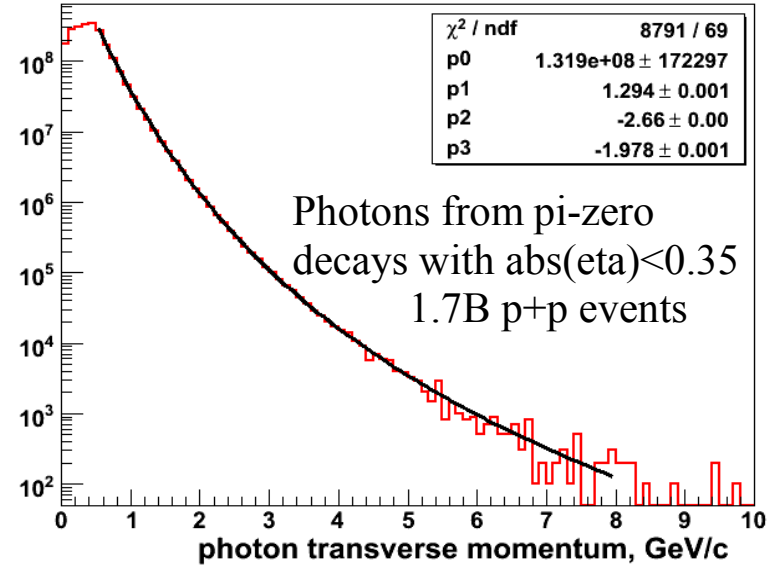
All plots correspond to ~1.7B min. bias p+p events .

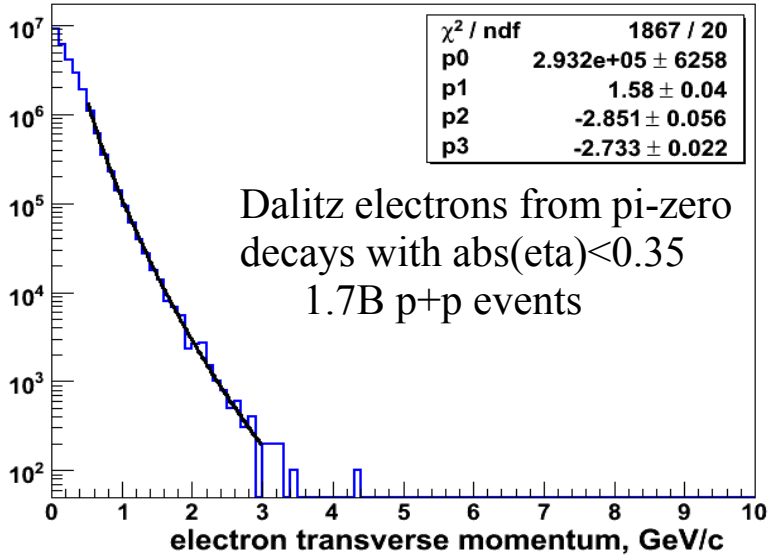
Background electrons

Main assumption: all background electrons come from pi-zero



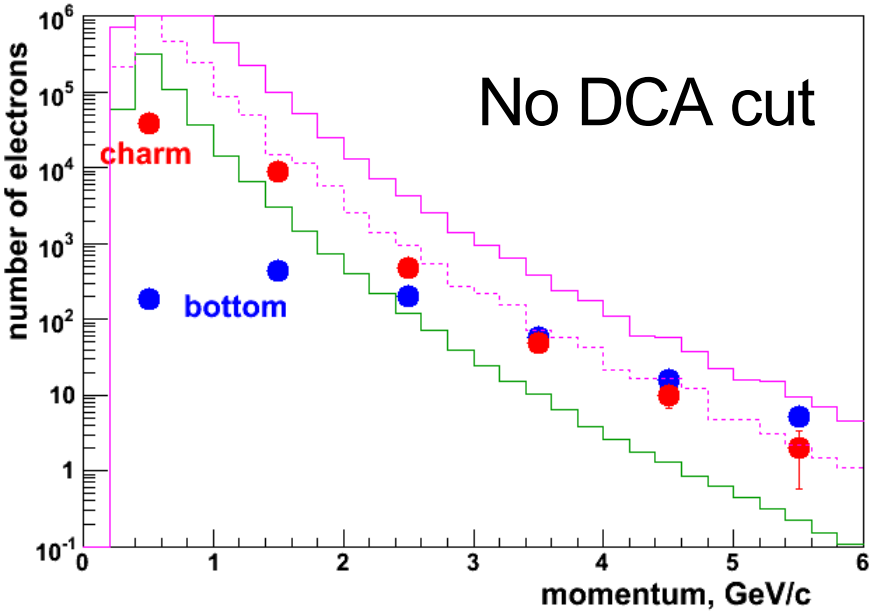
ppg063

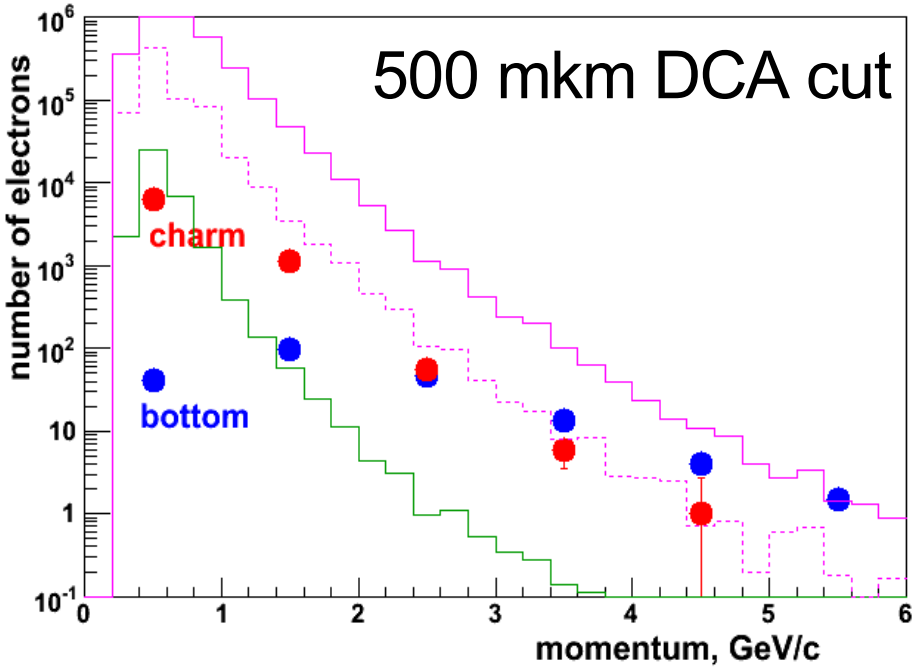


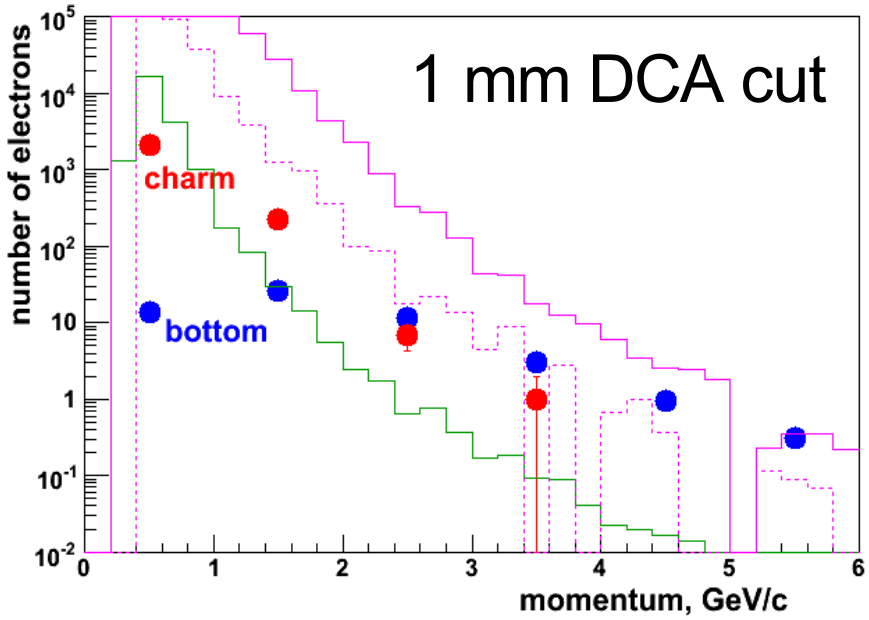


Normalization of background electrons

Generate electrons and photons with flat pT distributions and run them through complete PISA simulation and reconstruction. Use weights from previous slides.







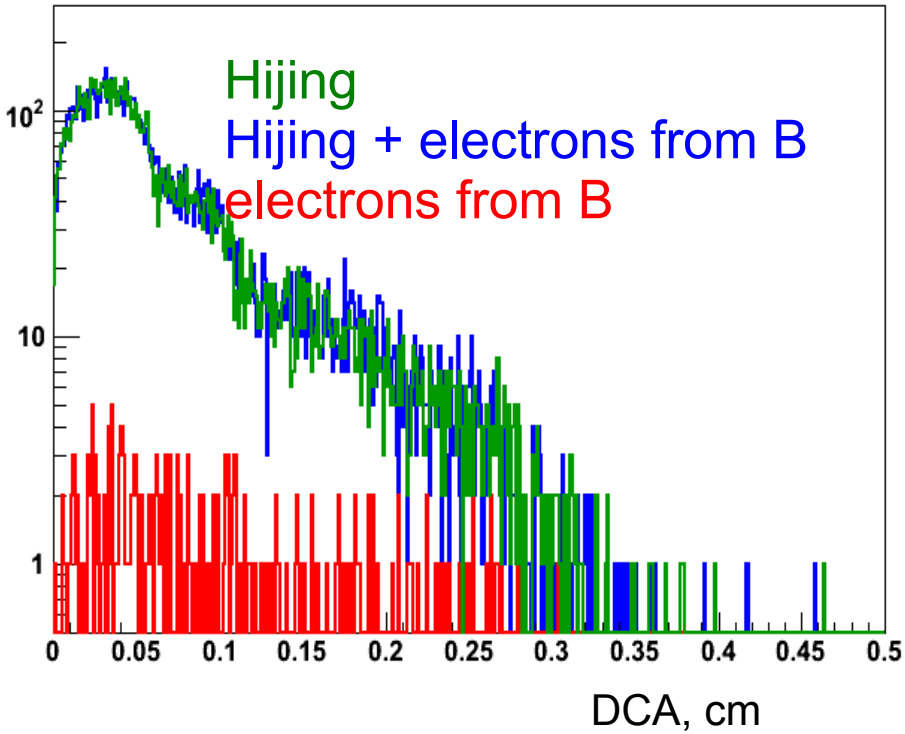
Magenta – conversion electrons

Dashed magenta – conversion electrons after PhiV cut (>0.15)

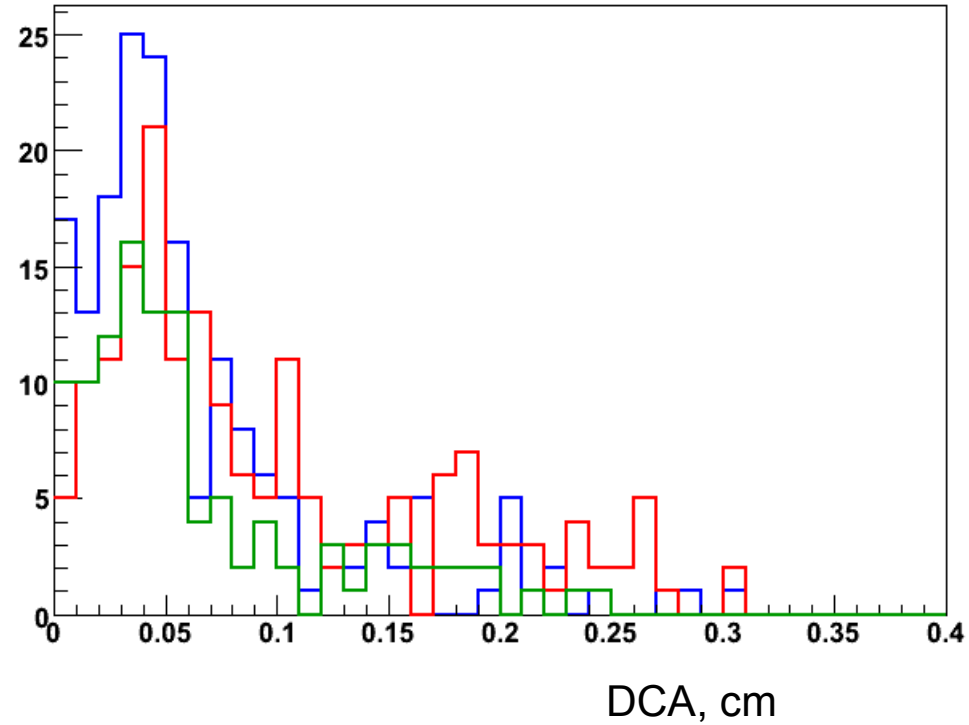
Green – Dalitz electrons

DCA in merged Hijing/B-meson events

All tracks



Identified electrons



Accuracy of Dch track projection to VTX is rather bad, and in high multiplicity events one always finds a cluster close to the projection point. This cluster is often a wrong one.
Need new global tracking which associates Dch tracks with VTX standalone tracks