CT path in Hall D

Goals:

- Looking for hadrons in squeezed configuration (not necessarily PLC)
- Process could be reaction-dependent (e-scattering hasn't seen it)

Advantages of Hall D over previous experiments using photoproduction:

- Large coverage in CM angle
- Many different reaction channels
- Light nuclei ideal due to small nuclear size

How to use the data, isolate mean field:

- Ratios of 12C/4He
- Ratios of 4He or 12C to deuterium (if enough, unlikely with 2 days)
- Ratios of 4He or 12C to PWIA, use deuterium as normalization

$\gamma n \rightarrow \pi^- p$ in 4He in Hall A







From the proposal:

- Definitely not going to reach t of 14 (!!!!), but why?
- Measuring -t up to 3.5 looks useful
- Can still scan in the cm angle
- Expect largest effect at theta_CM = 90 deg

Rho0 candidates

-need to get more data in this plot (how much??)

-does not have accidental subtraction

-probably has some extra delta background, but just to get a feel of the phase space



omega:t {Z_vtx>51&&Z_vtx<79&&mass_pimp*mass_pimp<5}

t

u>2 cut, probably some delta contamination

For all runs:



t:omega {(Z_vtx>51 && Z_vtx< 79) && mass_pimp*mass_pimp<5 && u>2}



What happens to the events around 0? Is this an acceptance effect?