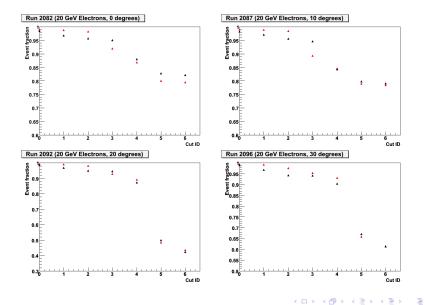
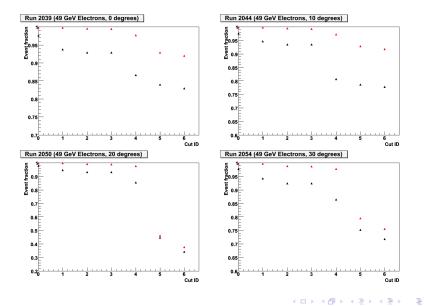
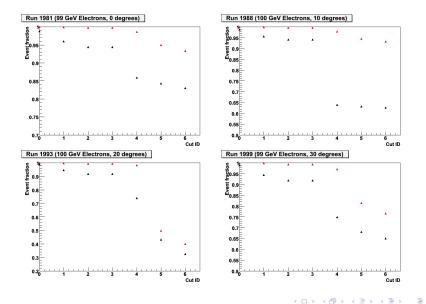
Definition of the cuts

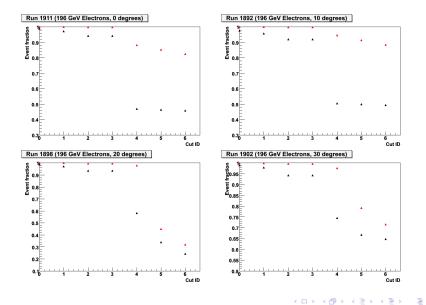
- Essentially the same as the ones Alex presented in the last meeting.
 - Where "essentially" means: no pre-cut, no cut on McEnergy, CalTrackAngle, AcdTotalEnergy and CalTotRLn
- 1. CalCfpEnergy > 10000
- 2. CalTransRms < 35
- 3. CalTrkXtalRmsE < 30
- 4. CalXtalRatio < 0.25</pre>
- 5. CalLRmsAsym < 0.04
- 6. Tkr1ToTTrAve > 1.6
- 7. Tkr1CoreHC > 5

The idea would be to see how the fraction of the events passing the cuts scales as the cuts themselves are progressively applied. In the following slides: Data in BLACK, MC in RED.

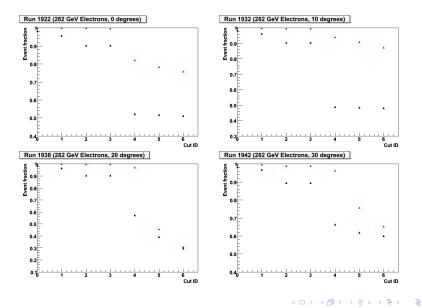




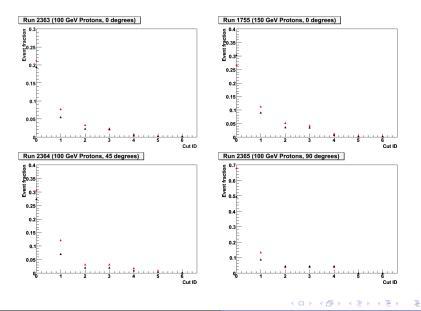




L. Baldini, J. Bregeon, M. Pesce-Rollins, C. Sgrò High-e



Protons



There are significant differences (up to a factor of two).

- For electrons: worst at high energy, strong dependence on the incidence angle.
- For protons: don't get confused by the y scale on the plot; after cut 6 there's typically a factor of two difference—can be in both directions, depending on energy/angle—and that affects the knowledge of the residual contamination.

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The next step is to try and scale the cuts according to the known discrepancies and see how much better the agreement is.