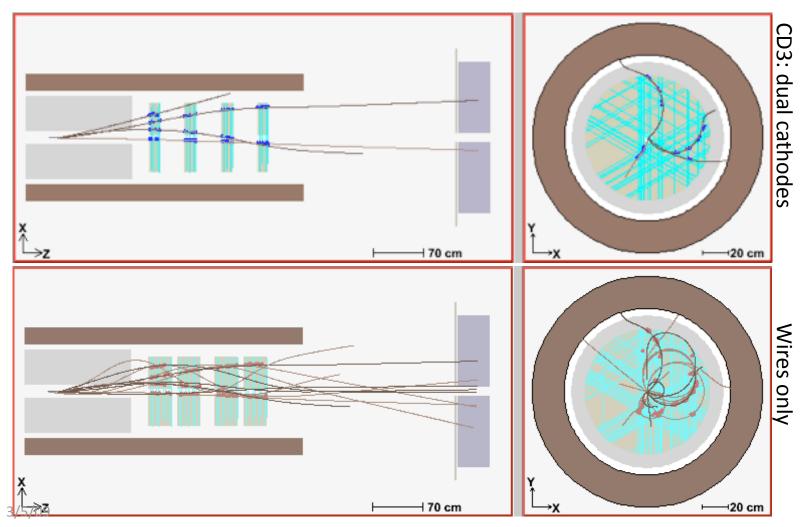
Single Event: Cathodes vs. Wires

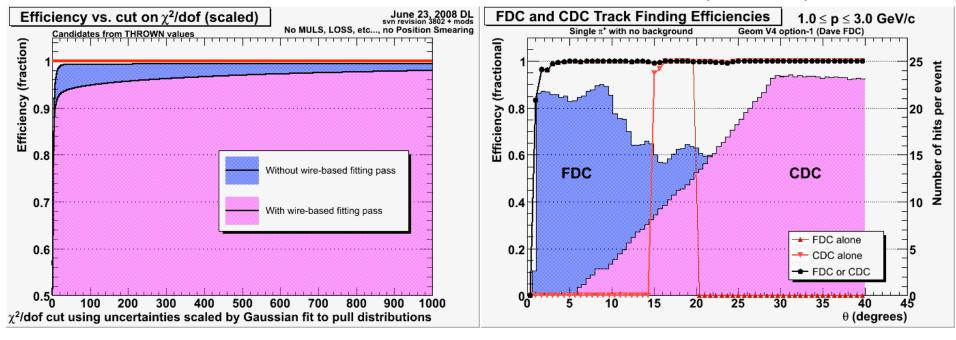
It is easy to see the 4 tracks in both designs by eye. However, the "wires only" design has additional points from unresolved ambiguities that serve to confuse the track finding algorithm.



Tracking Efficiencies(?)

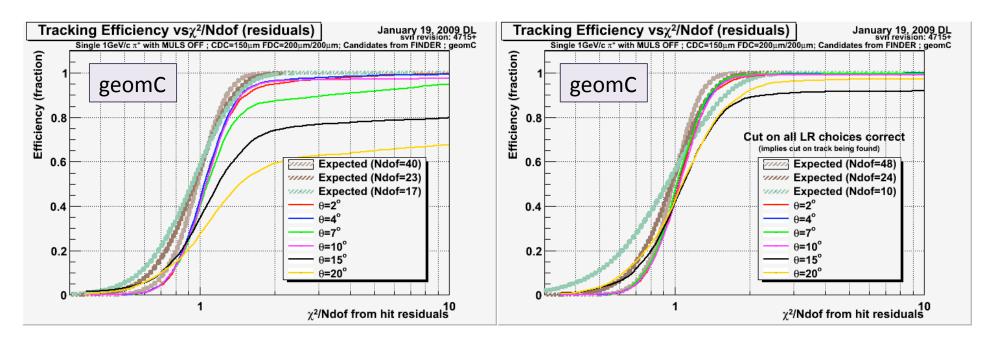
CDC track fitting efficiency vs. parameter χ^2/N_{dof} cut

Criteria for efficiency: "were any tracks found?"

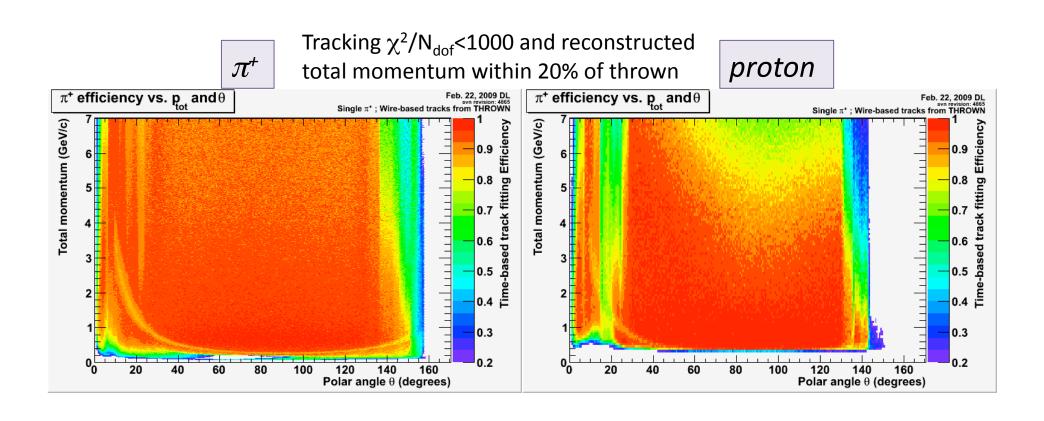


Locking in the LR choice

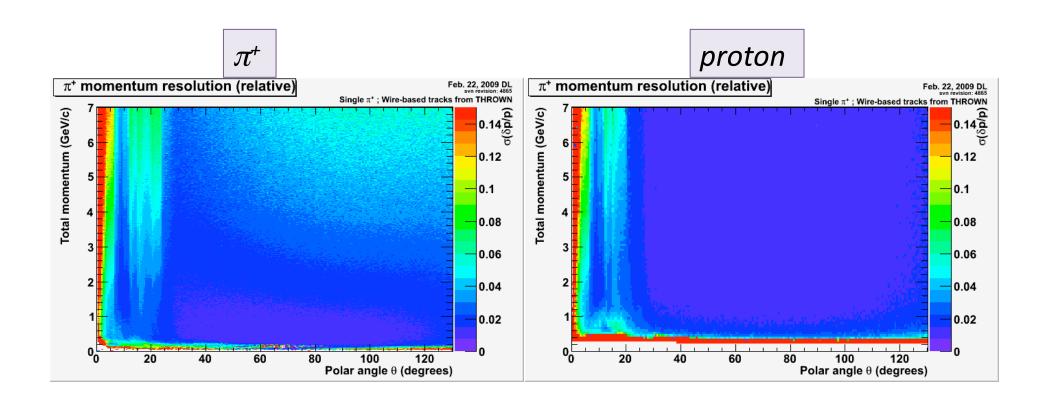
The current studies use a fitter that locks in the left-right choice based on the results of fitting to the wire positions. Looking only at tracks that were found *and* had the correct L-R choice made for all hits gives a limit on what might be achieved with a better algorithm.



π^{+} , proton efficiencies



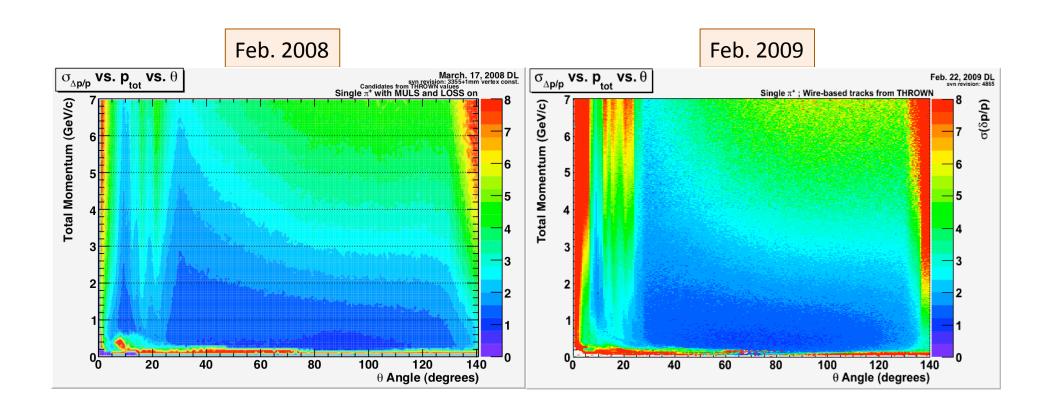
π^{+} , proton Momentum Resolutions



Backup Slides



Relative, total momentum Resolution



Note: For technical reasons, the plot on the left uses "CONT" option to draw contours while the plot on the right colorizes by bin content.