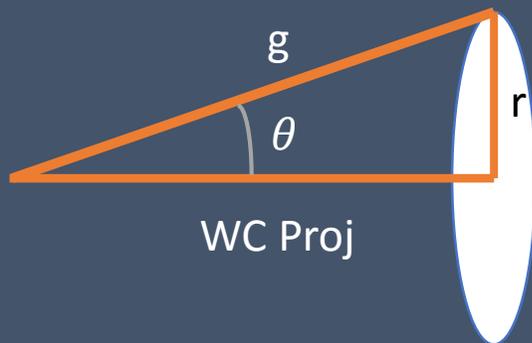


Track Matching – The Cone Approach

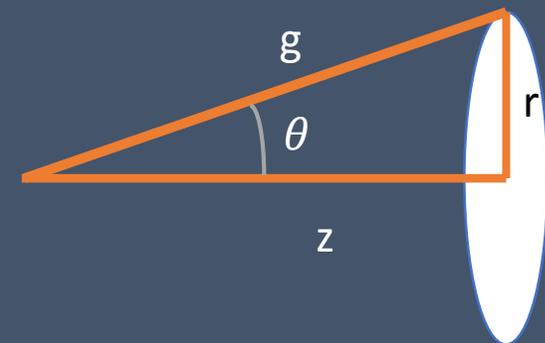
Lucas Mendes Santos, Ernesto Kemp and Gustavo Valdivieso

The Methods

- Method 1:
 - Project a cone inside the TPC, where the height is the WC projection inside the TPC;
 - Look for the track that has the minimum base radius;



- Method 2:
 - Project a cone inside the TPC, where the height is the z-coordinate of start point of the LAr track;
 - Look for the track that has the minimum base radius;

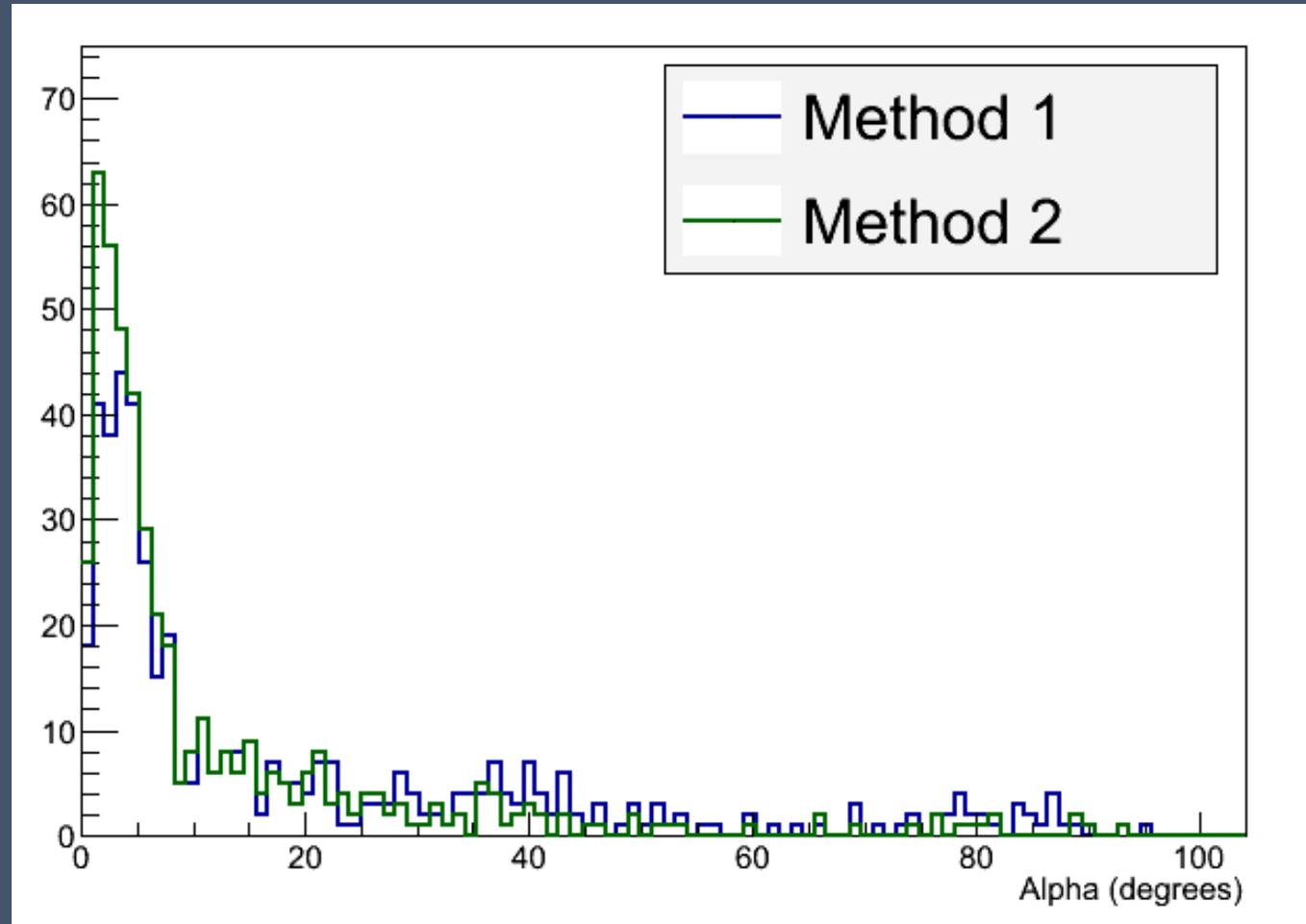


Results

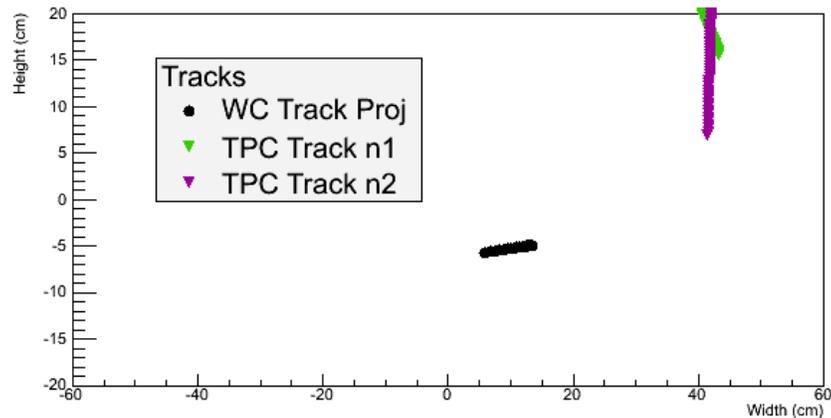
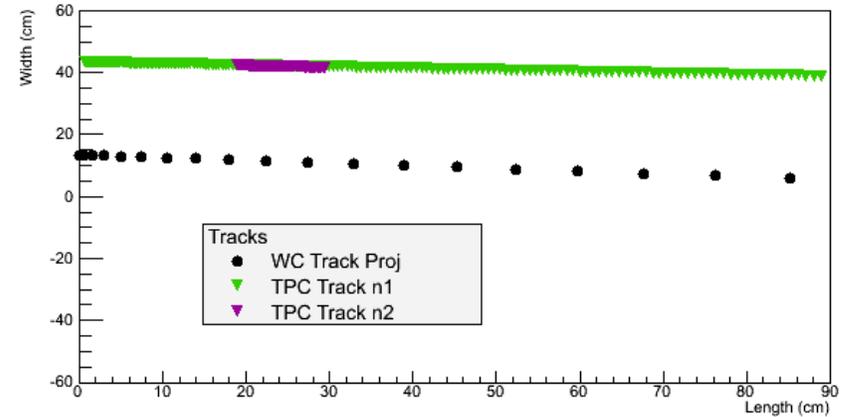
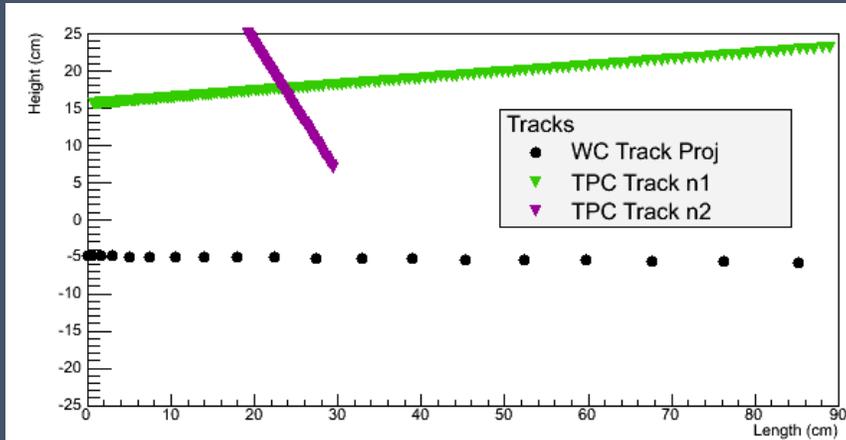
All Data took from the folder:
/lariat/data/users/jasaadi/NewChargedPionAnalysis
_+BEAMON-PILEUP_FullReco/

Thanks Jonathan!

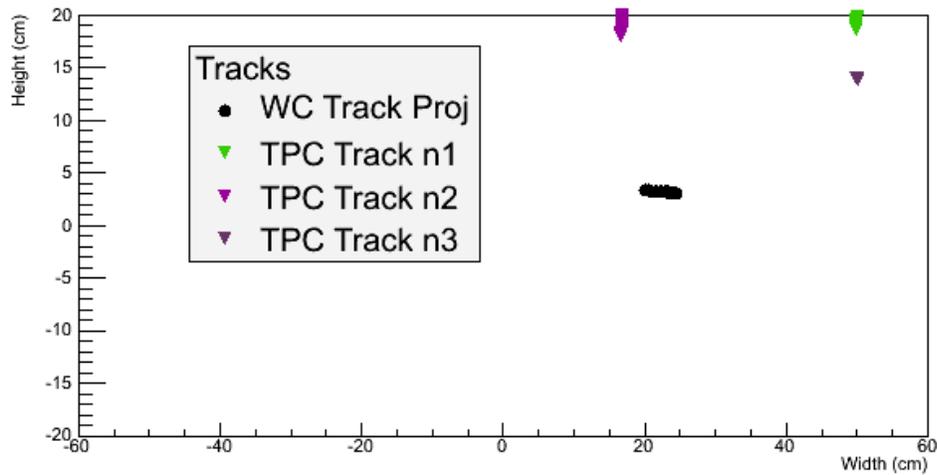
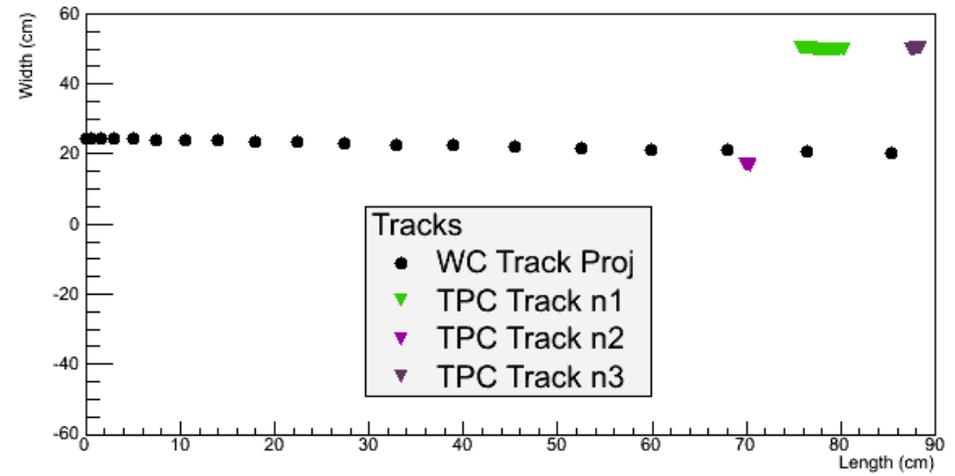
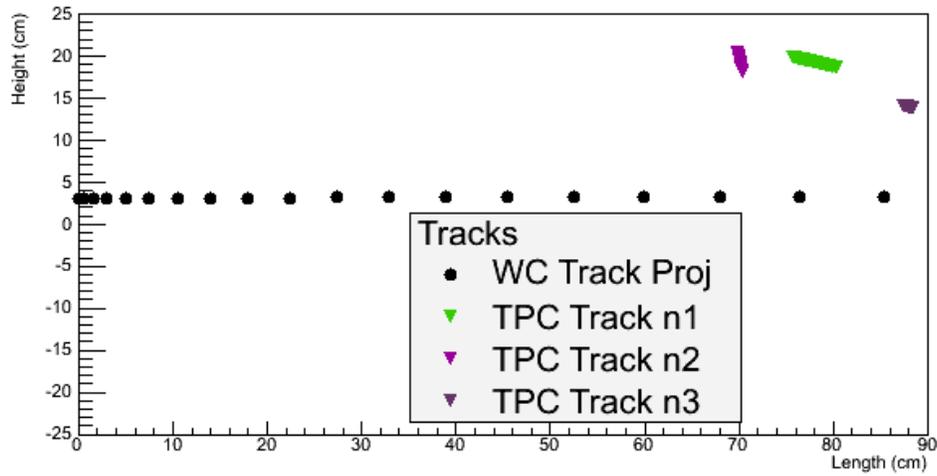
Results



Results



Run 6324 – subrun 8
– 4th event
 $\alpha = 4,5^\circ$

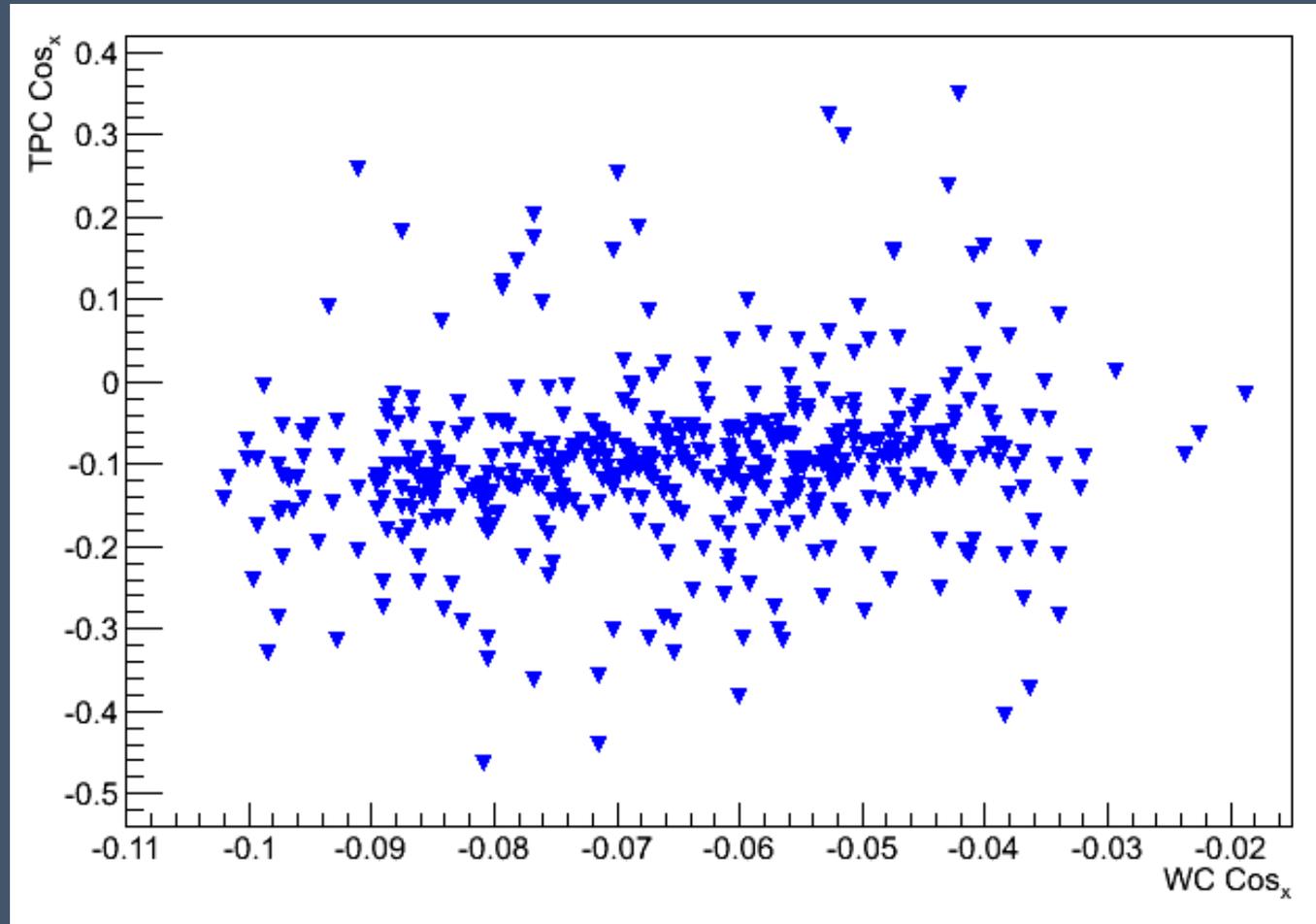


Run 6262 – subrun 15

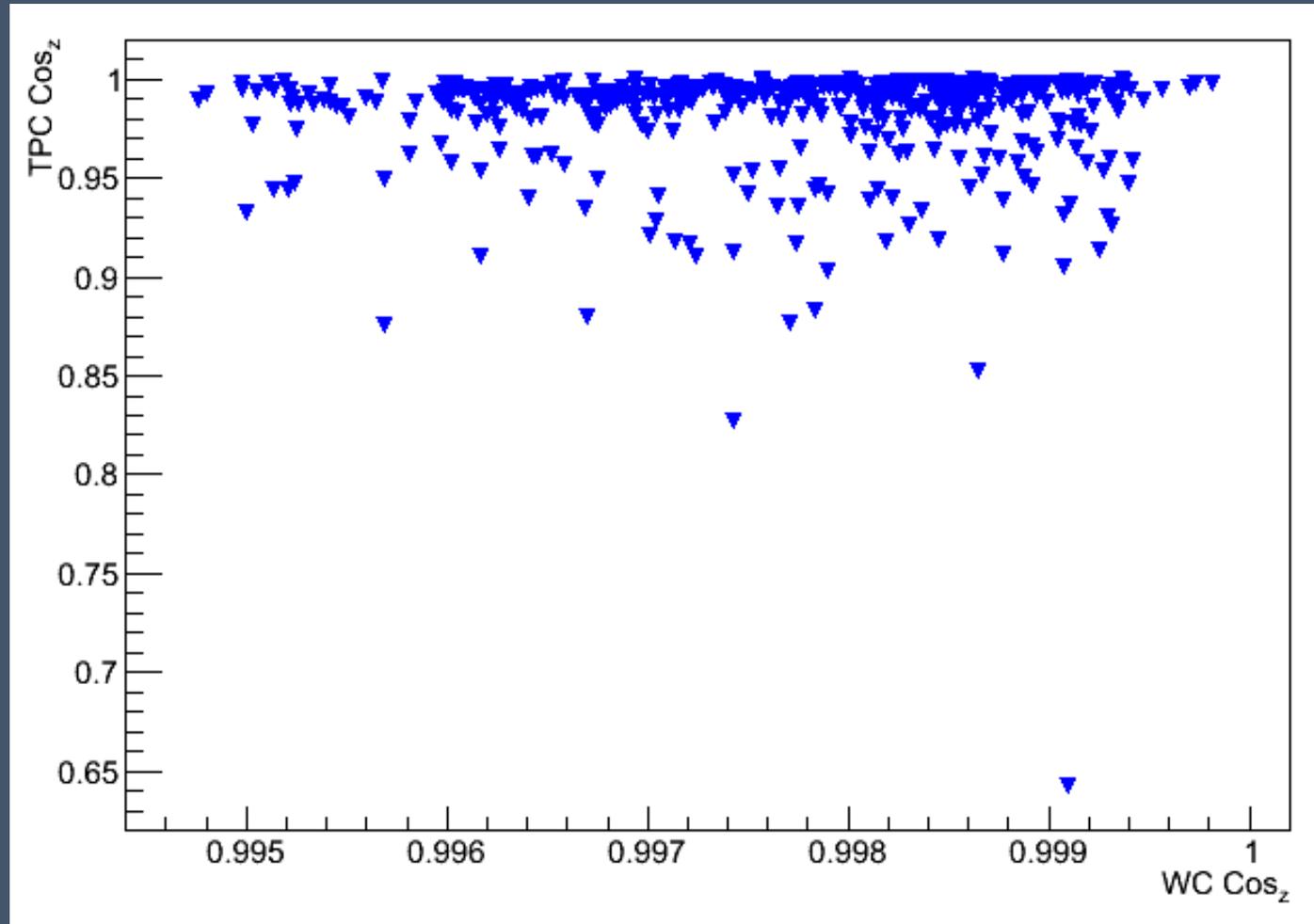
$$\alpha = 78,3^\circ$$

Back Up Slides

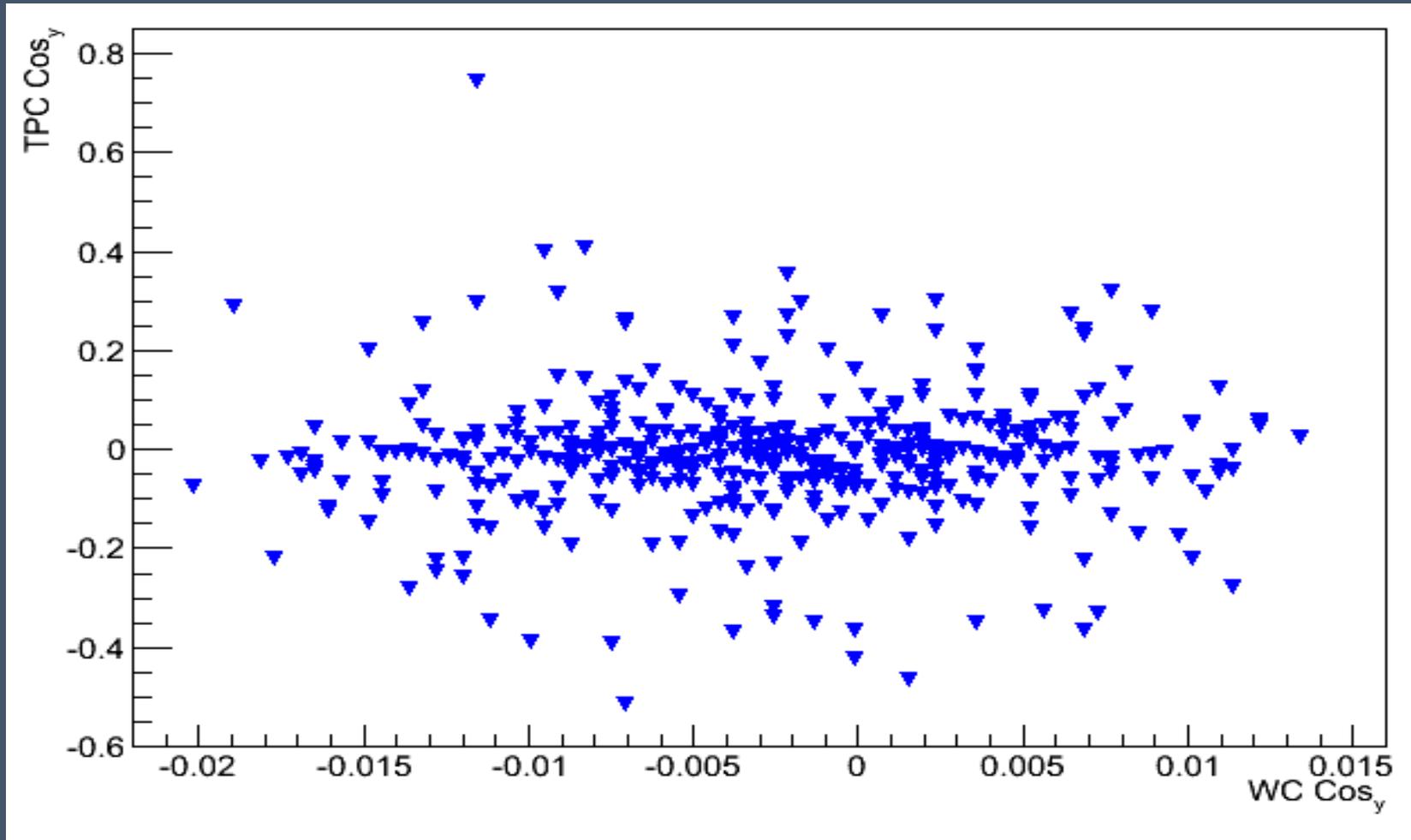
Results - Scatter Plots Directive Cosines



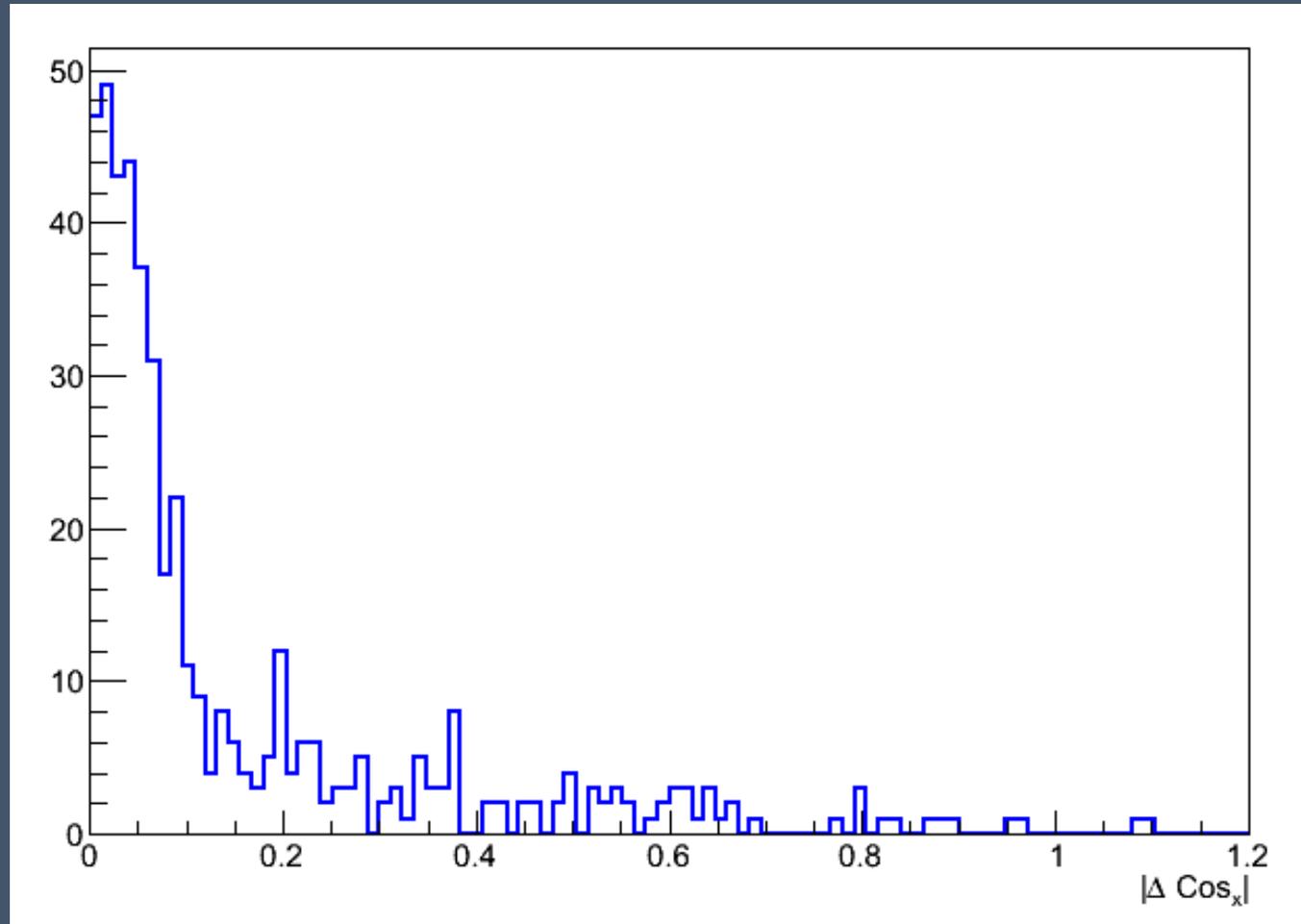
Results - Scatter Plots Directive Cosines



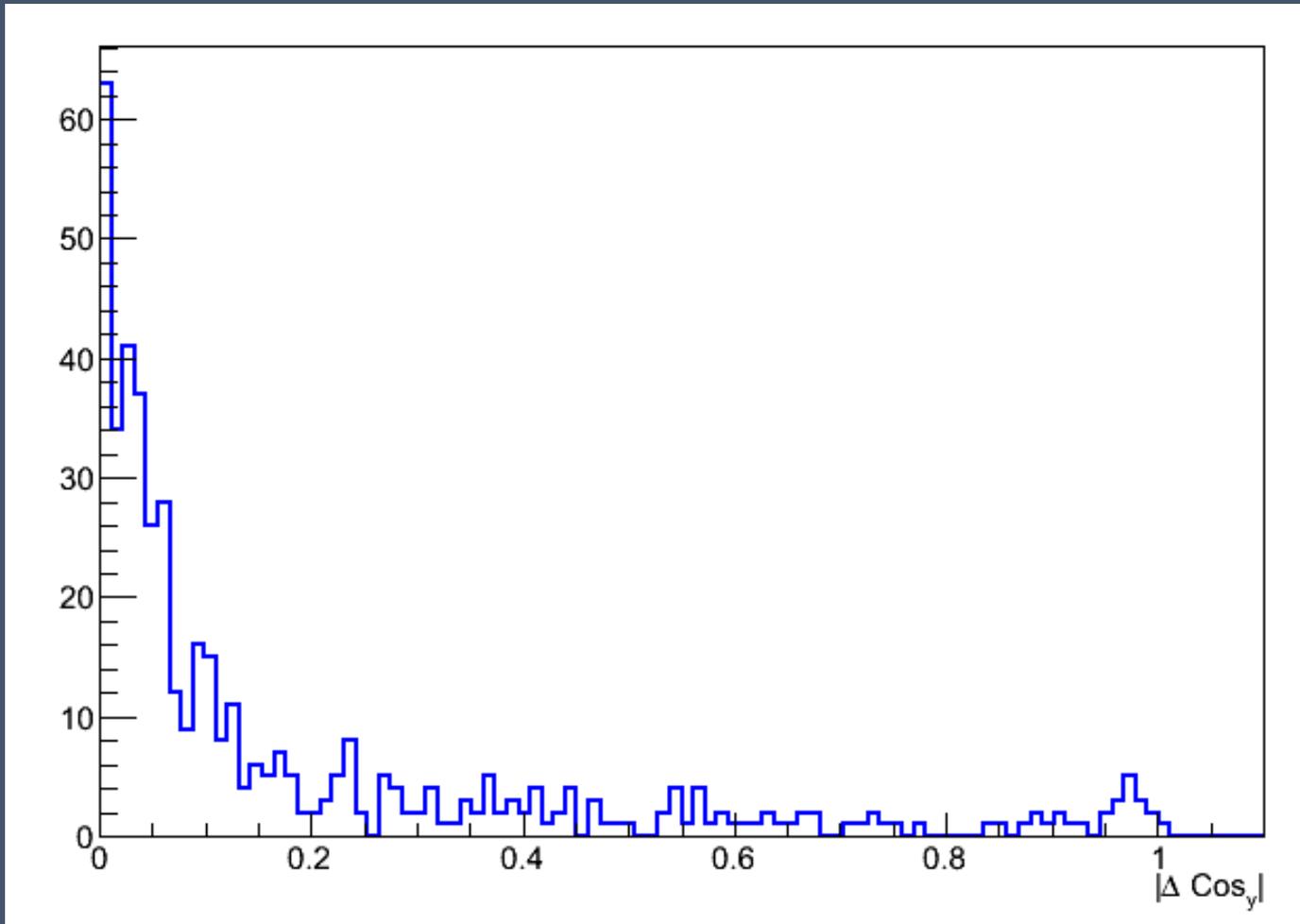
Results - Scatter Plots Directive Cosines



Results – Δ Directive Cosines



Results – Δ Directive Cosines



Results – Δ Directive Cosines

