

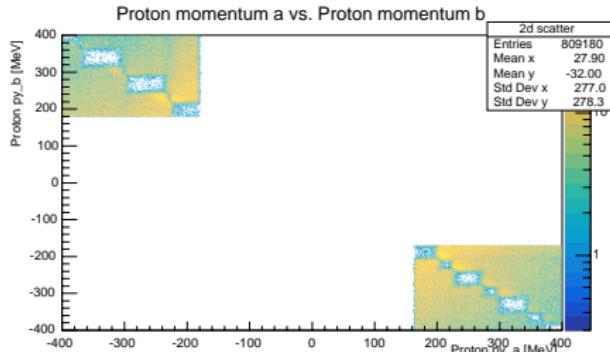
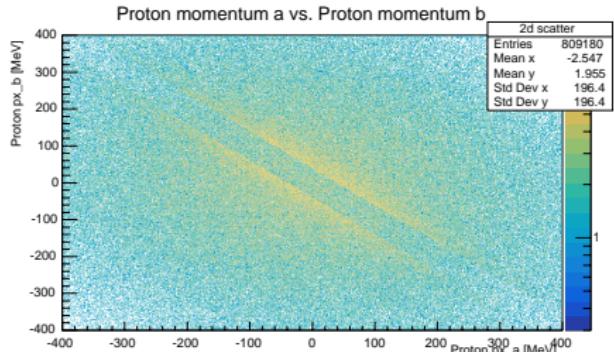
Progress report

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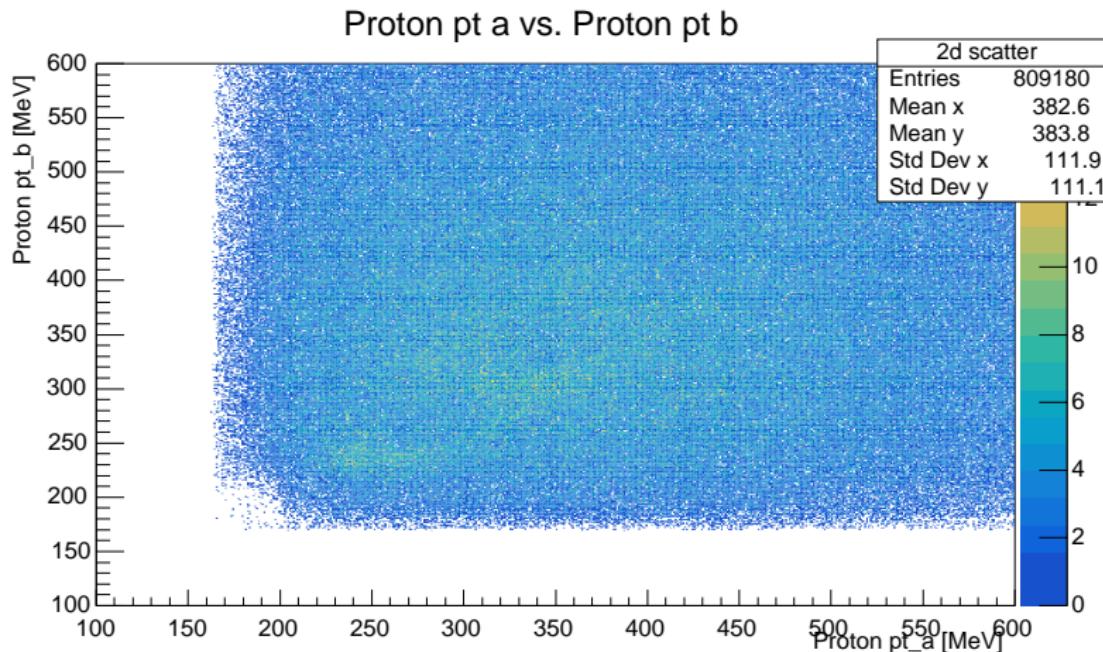
August 18, 2025

Fixed elastic veto



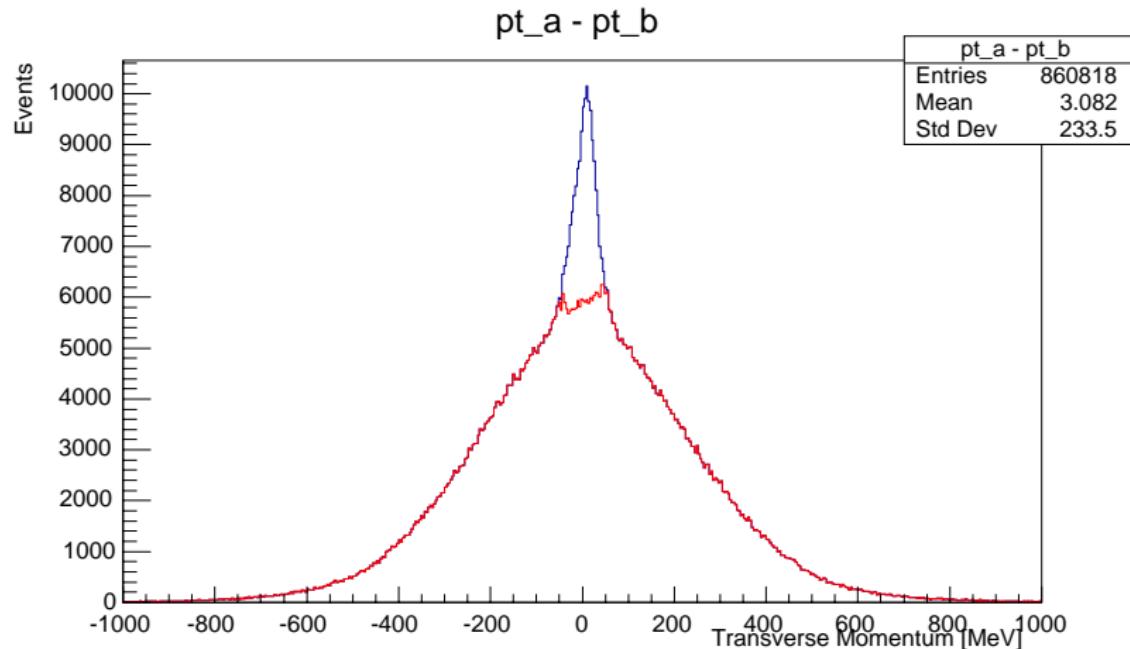
Veto of 40 MeV

Fixed elastic Veto



Transverse momentum correlation with veto of 40 MeV

Plotting $p_{T_a} - p_{T_b}$ of TOTEM2 with and without veto

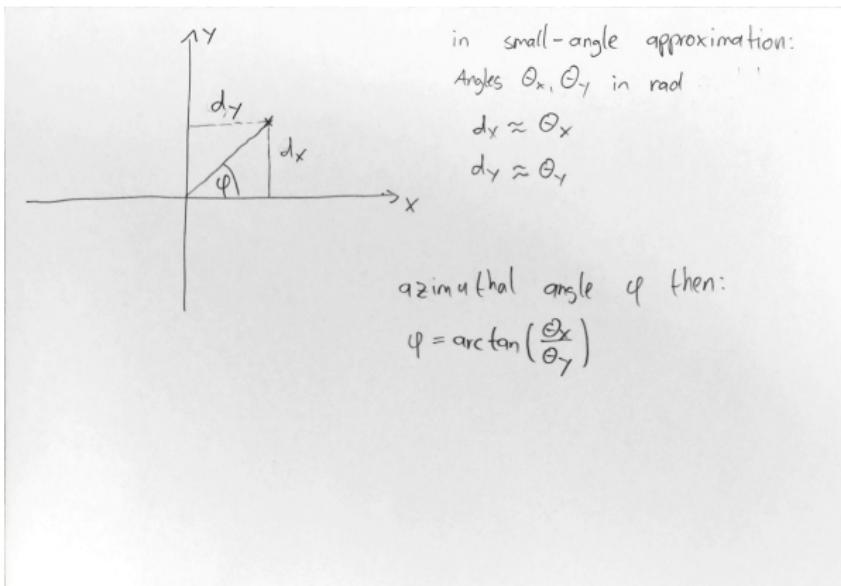


⇒ Elastic veto filters out with low p_T difference

Azimuthal angle of protons

- In TTree we have variables: $ThxR$, $ThxL$, $ThyL$, $ThyR$
- Azimuthal angle Φ in xy -plane given by:

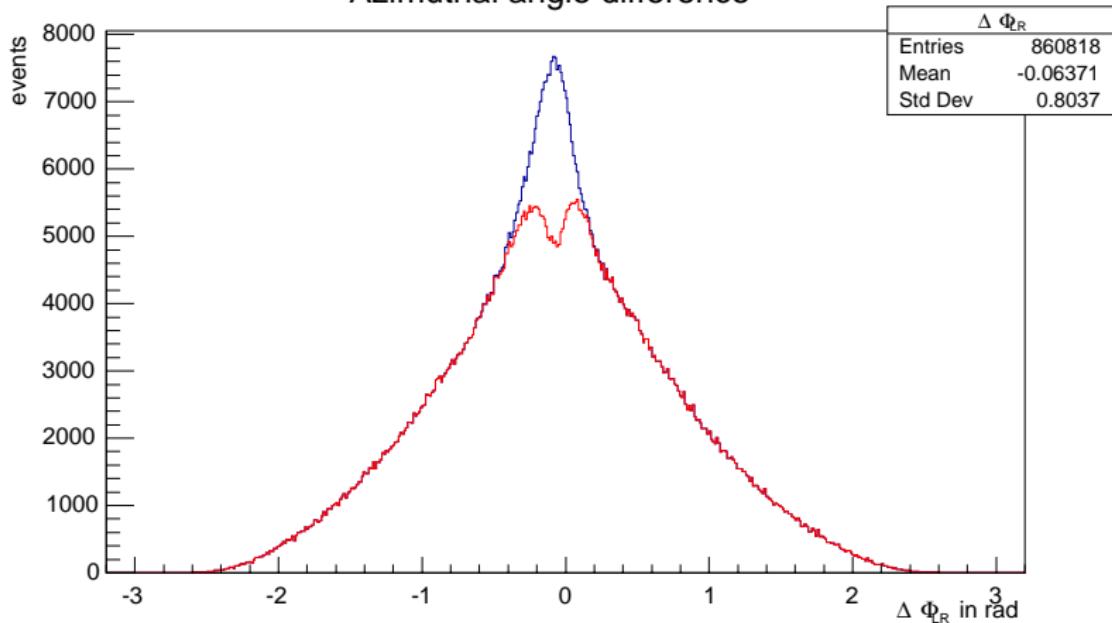
$$\Phi_{L/R} = \arctan \left(\frac{\Theta_{x_{L/R}}}{\Theta_{y_{L/R}}} \right)$$



Azimuthal angle difference of protons

We plot $\Phi_L - \Phi_R$

Azimuthal angle difference



Elastic veto removes events with low difference in azimuthal angles