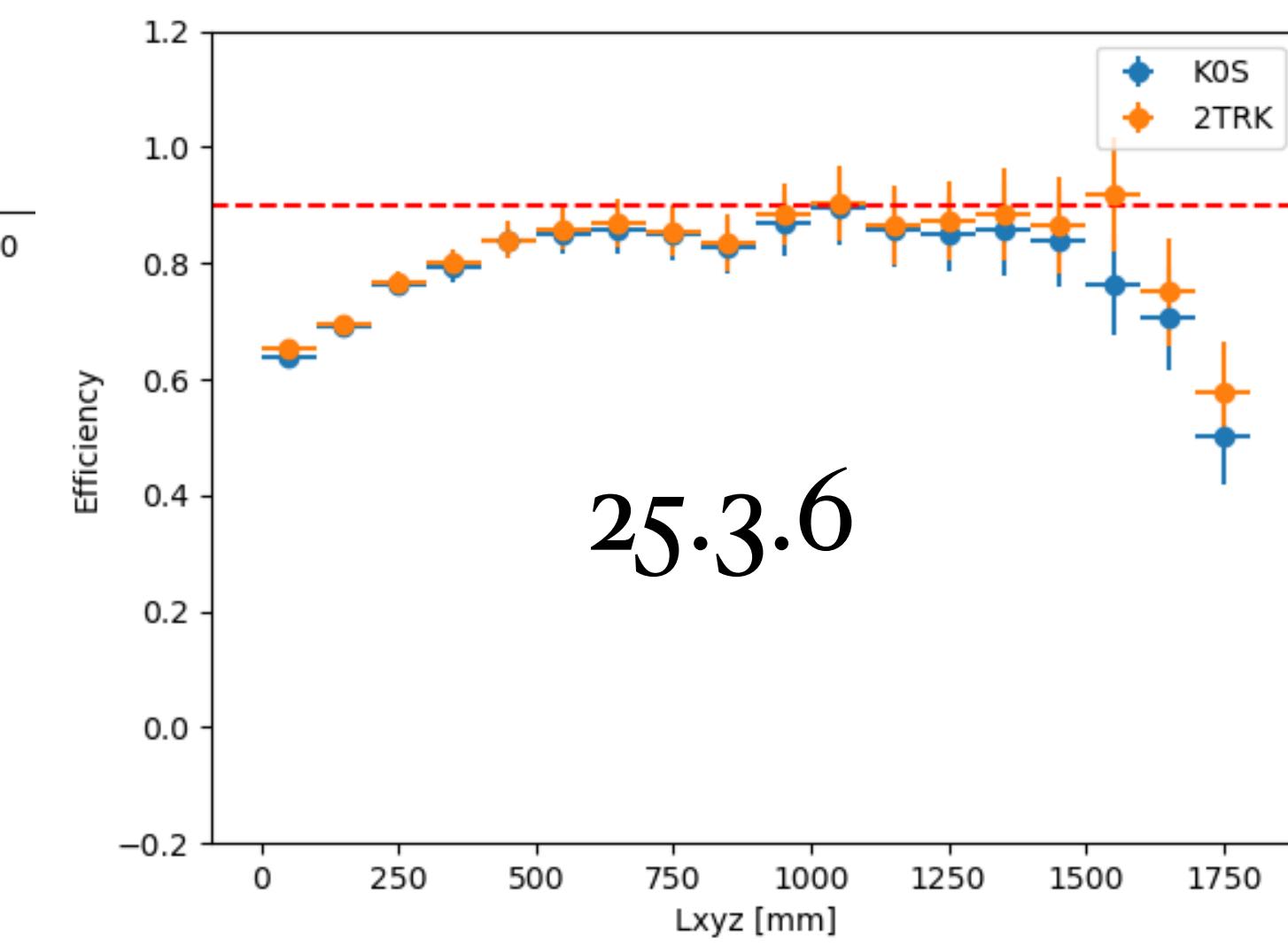
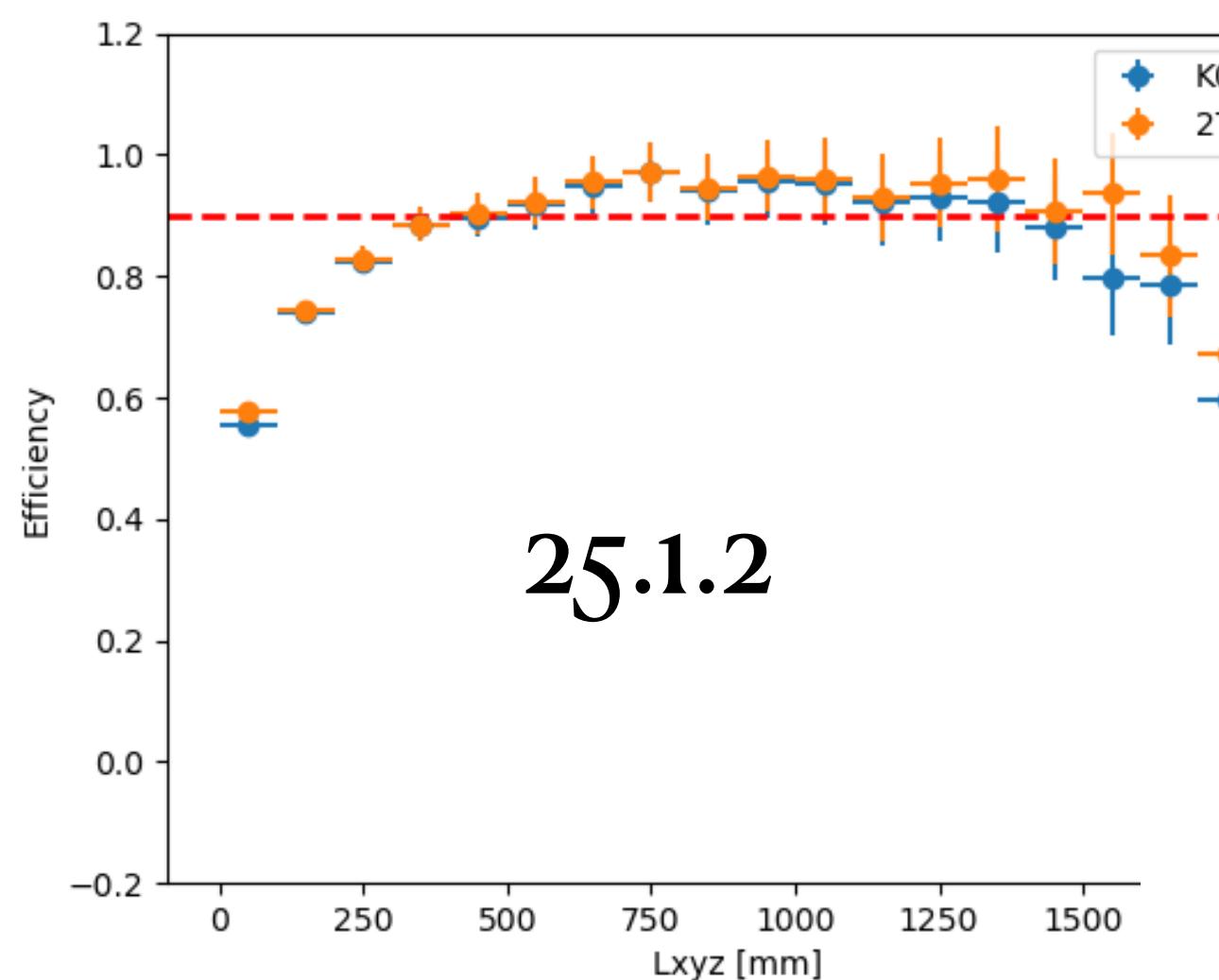
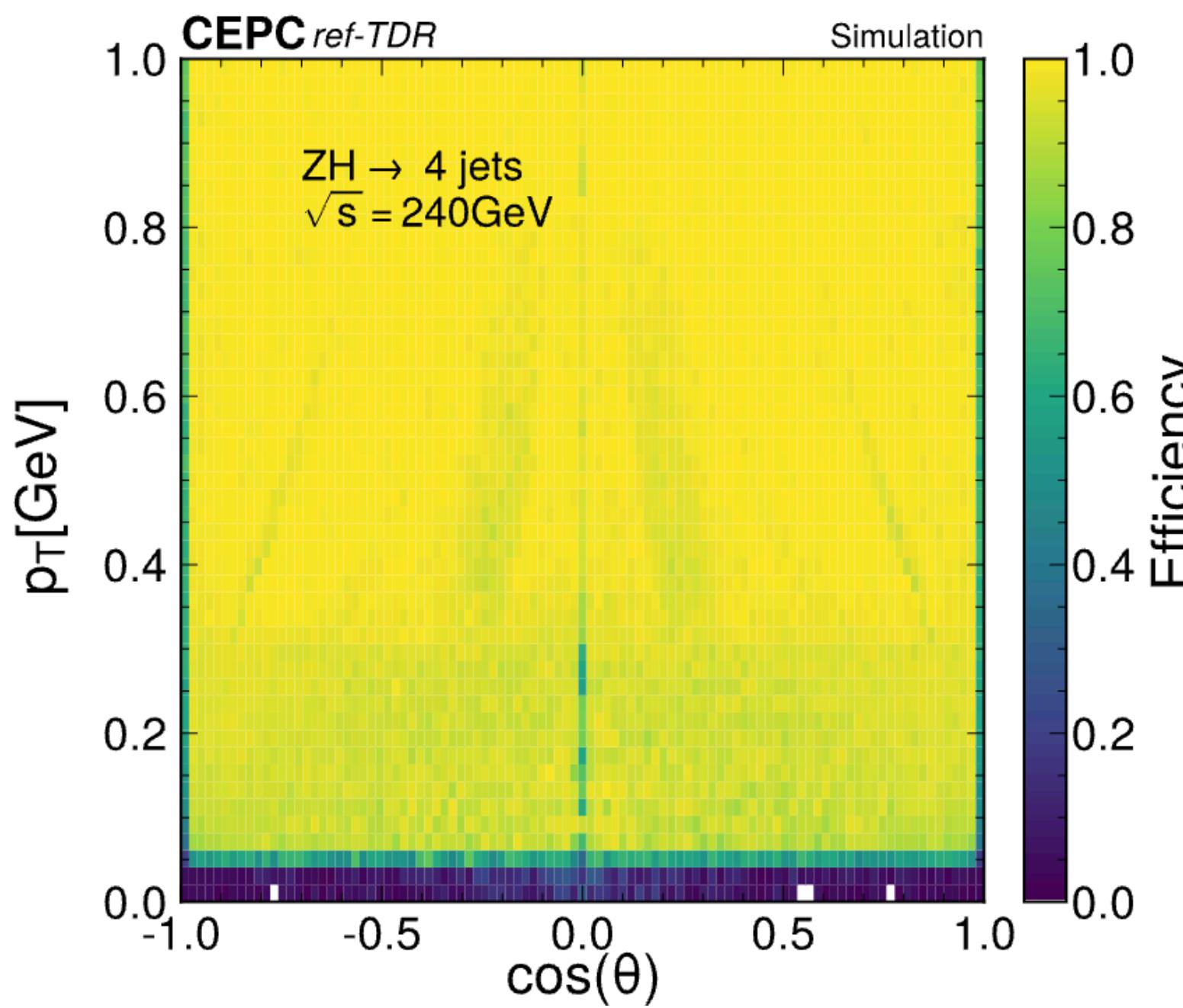


Tracking, PID and Vertexing

C.Zhang/31Mar2025

Tracking and charged hadron PID

- Tracking
 - What are the shadow bands on the 2D distribution, ongoing...
- Kaon efficiency



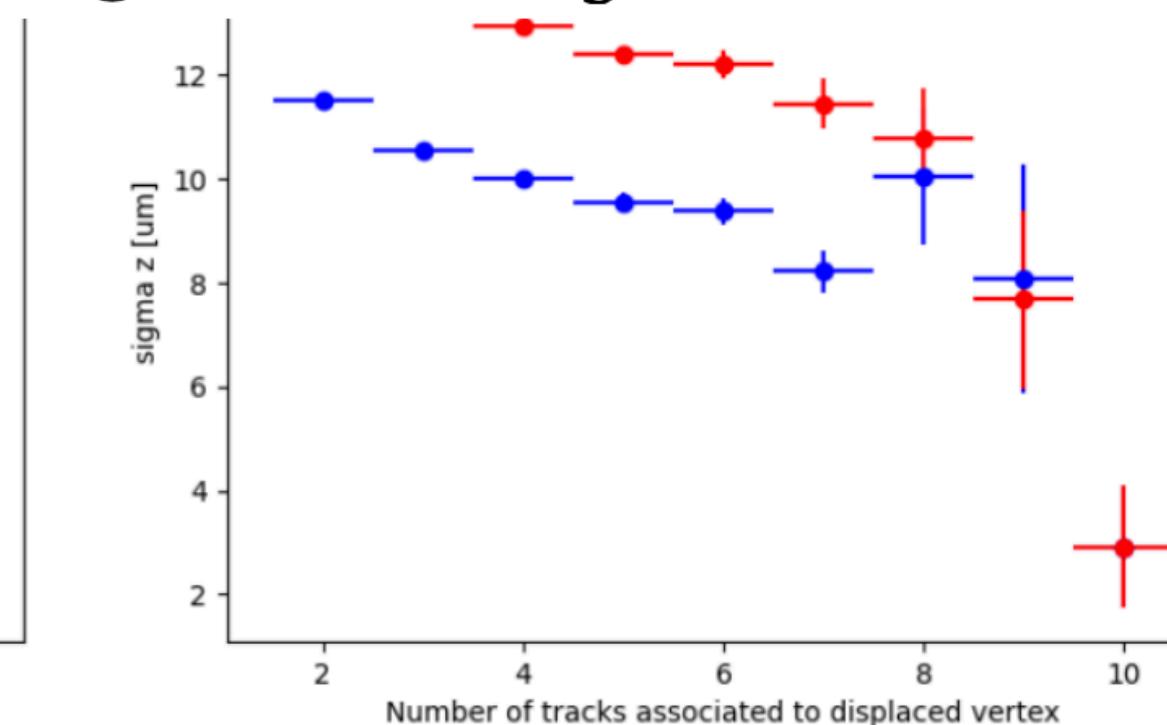
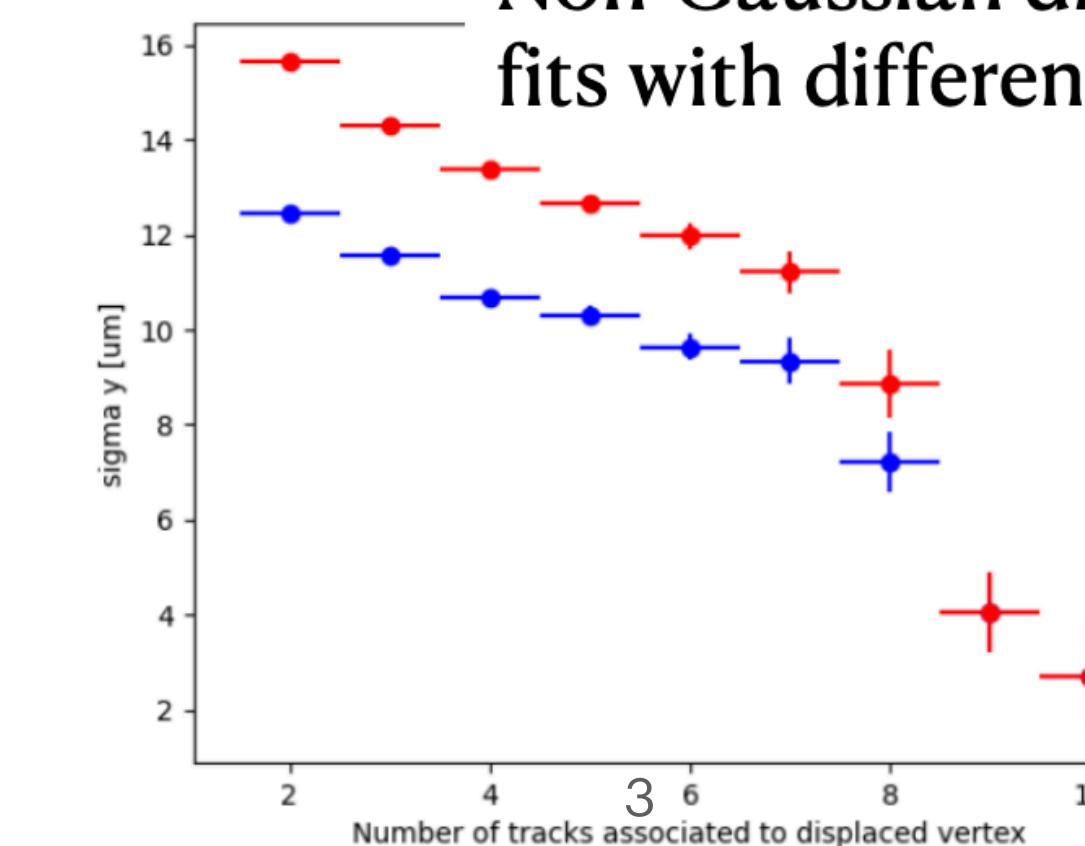
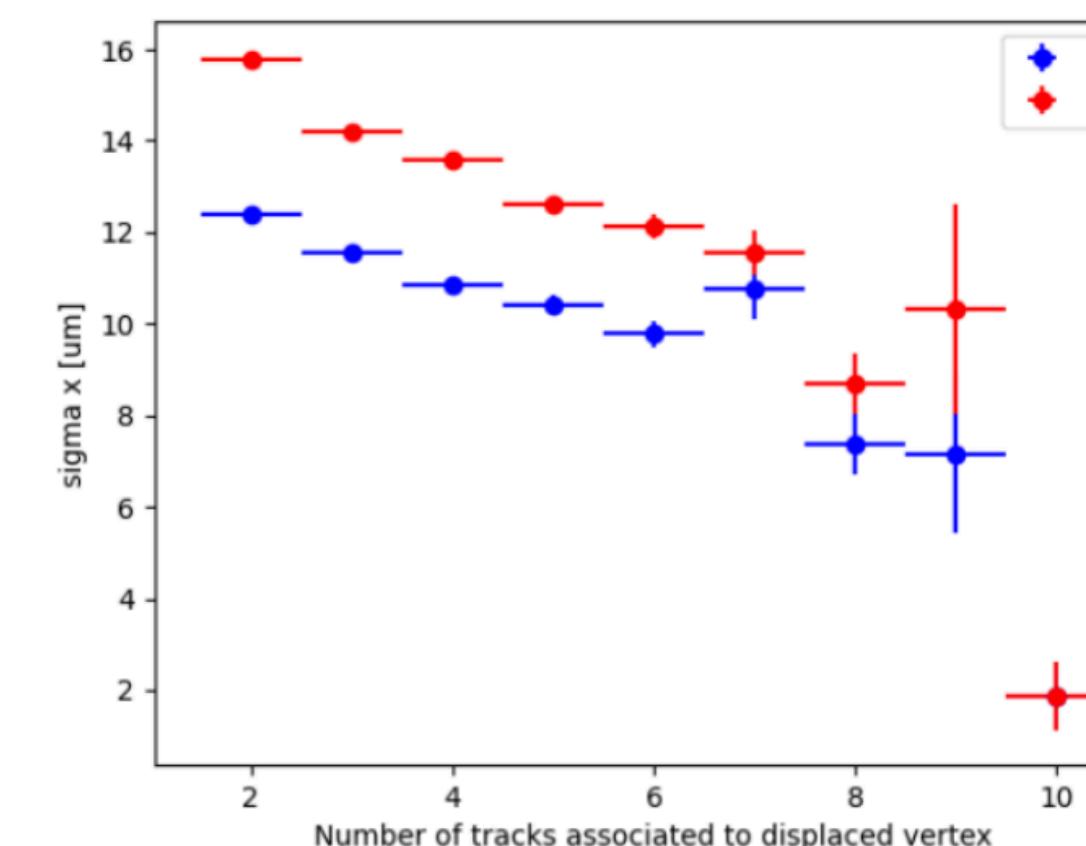
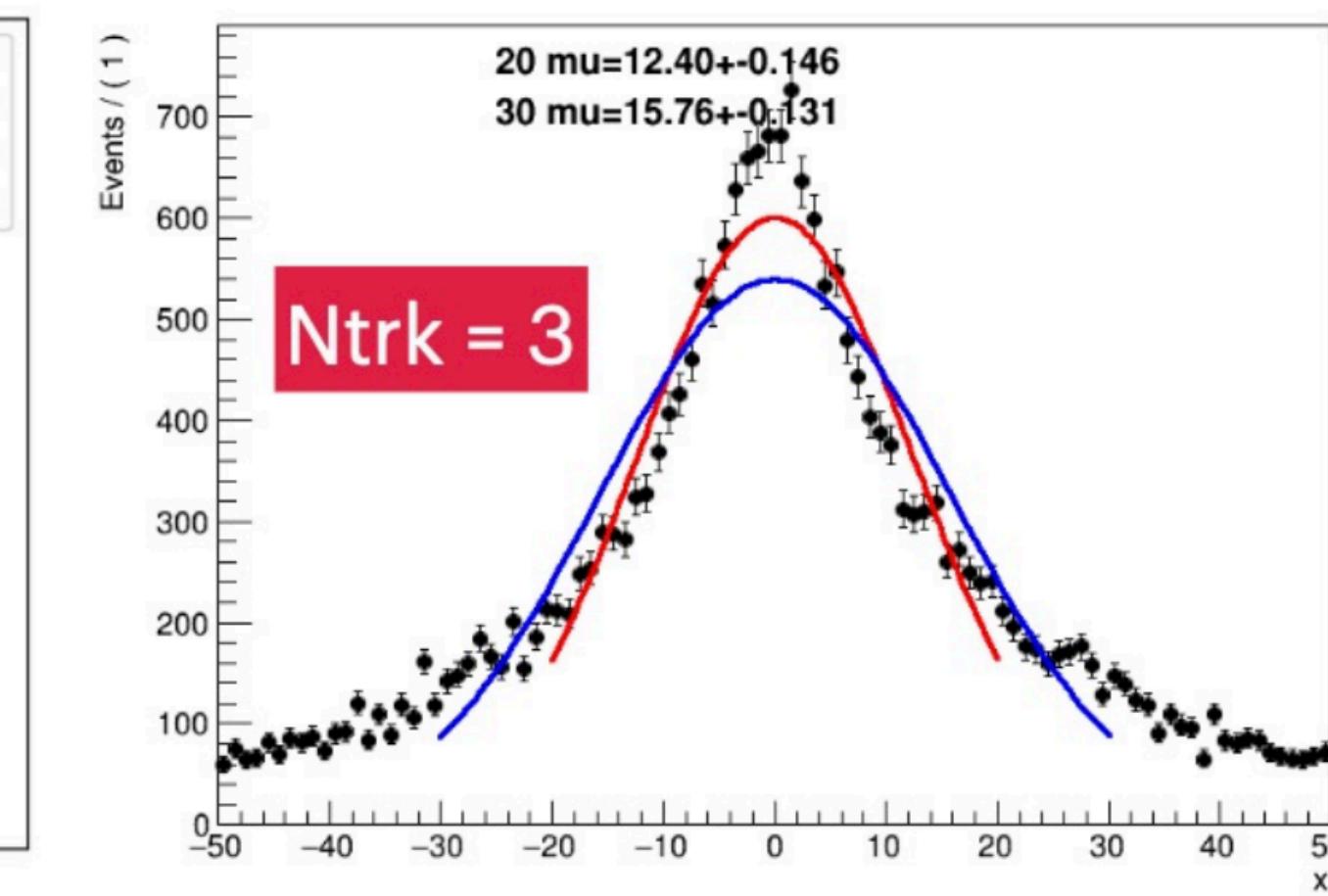
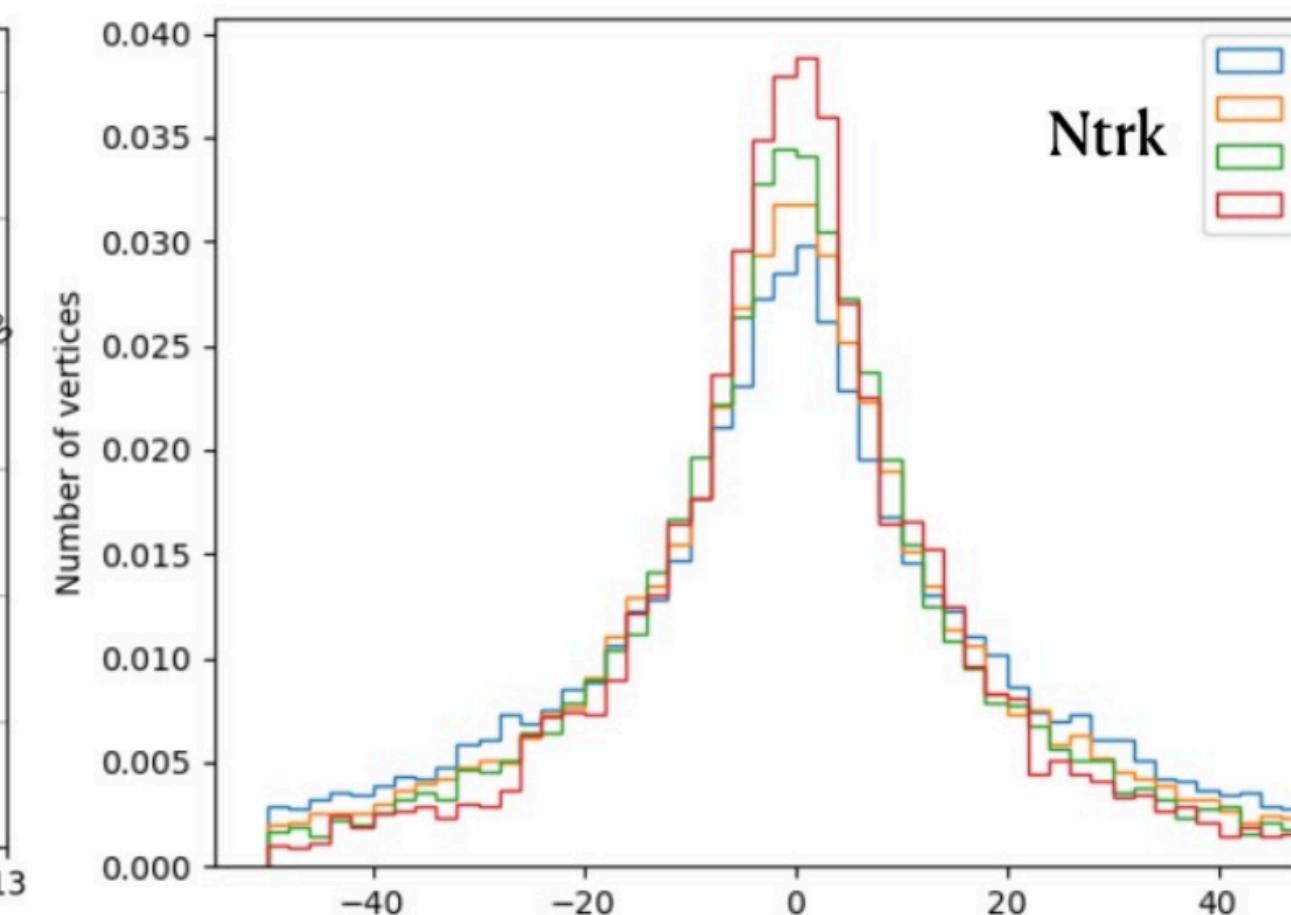
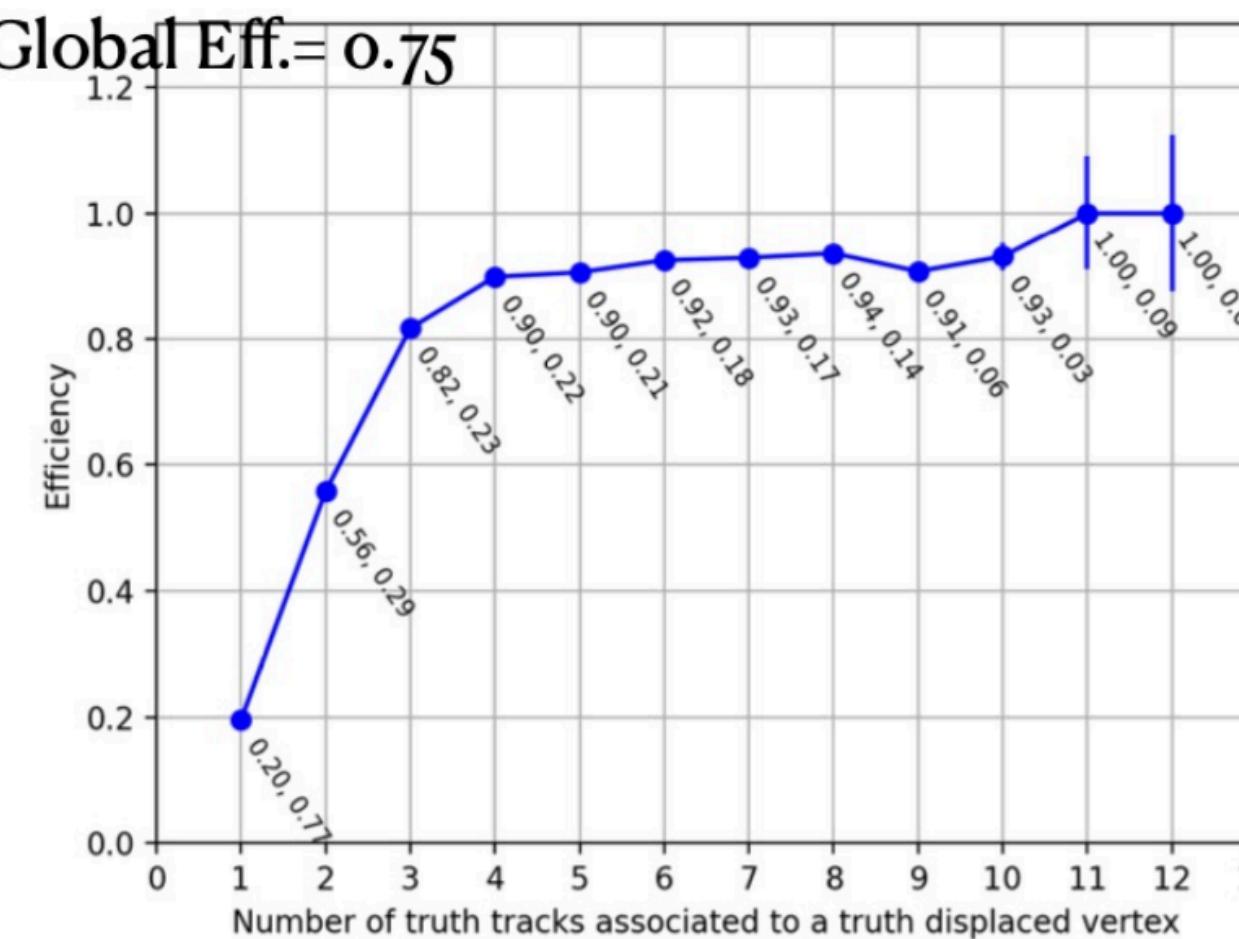
Secondary vertex resolution

Previous treatment

Update 2025.02.11

Secondary vertex (E91_eebb events)

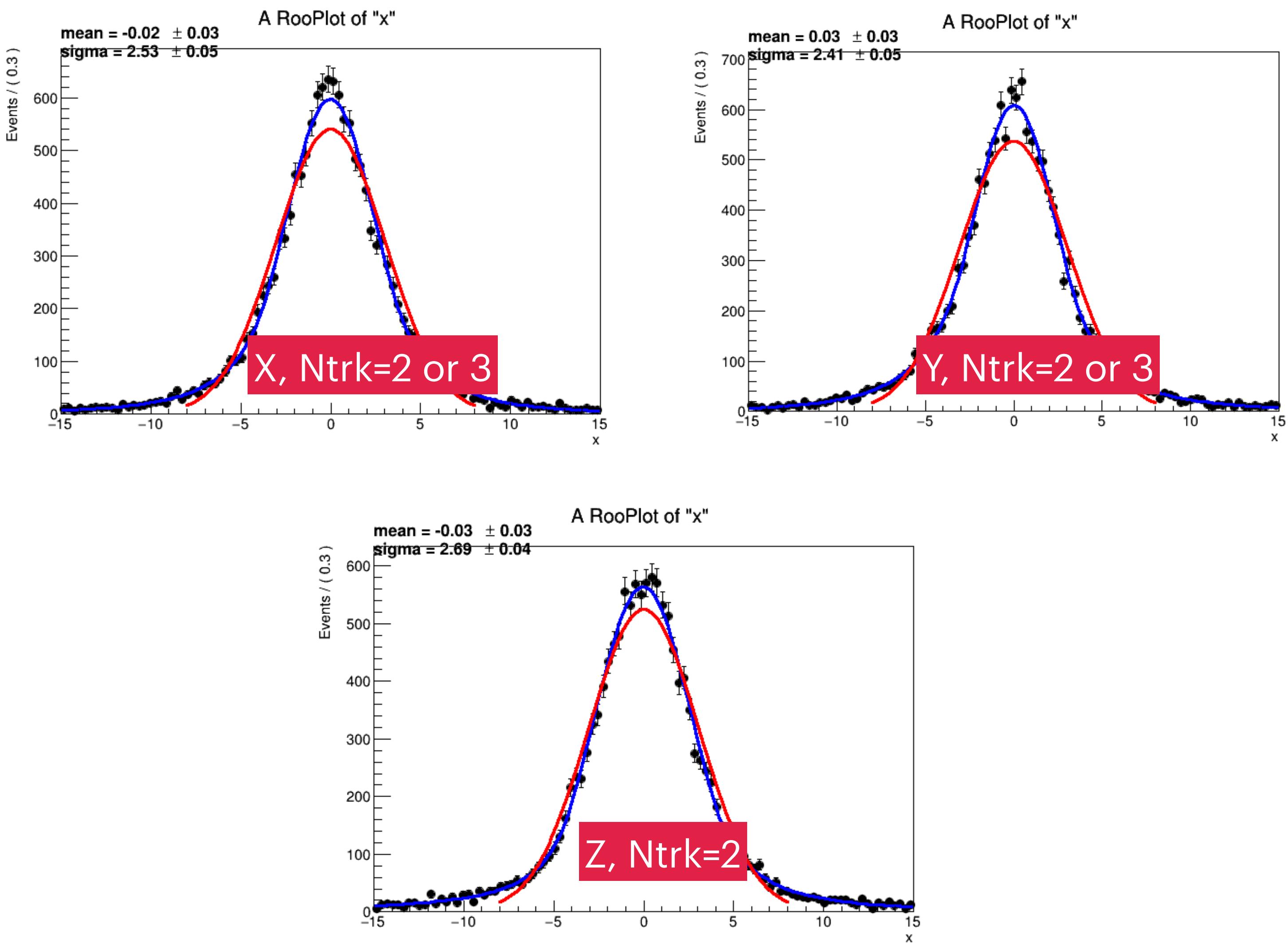
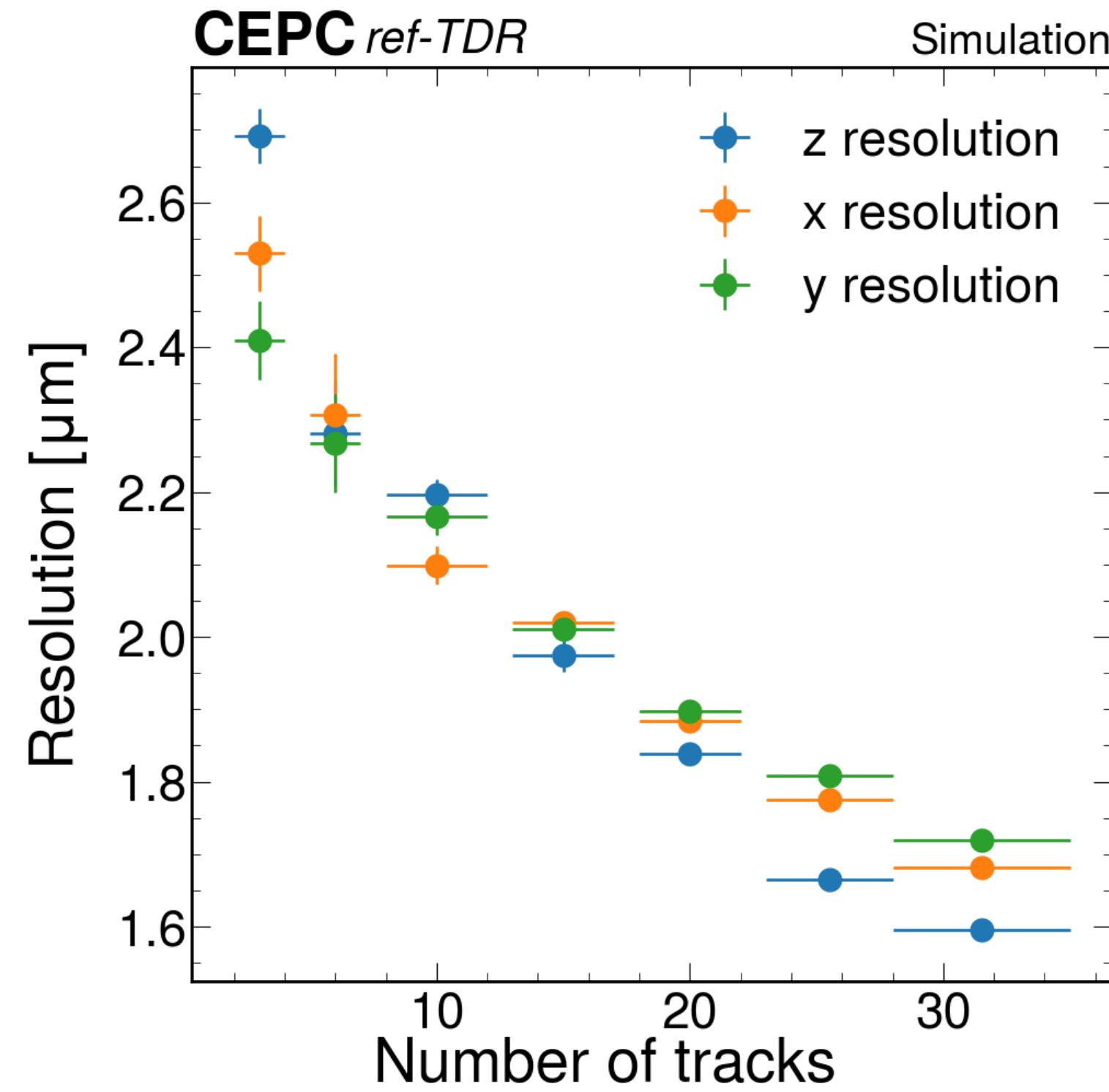
- Global Eff.= 0.75



Non-Gaussian distributions, results shown for Gaussian fits with different ranges of 20 and 30 um

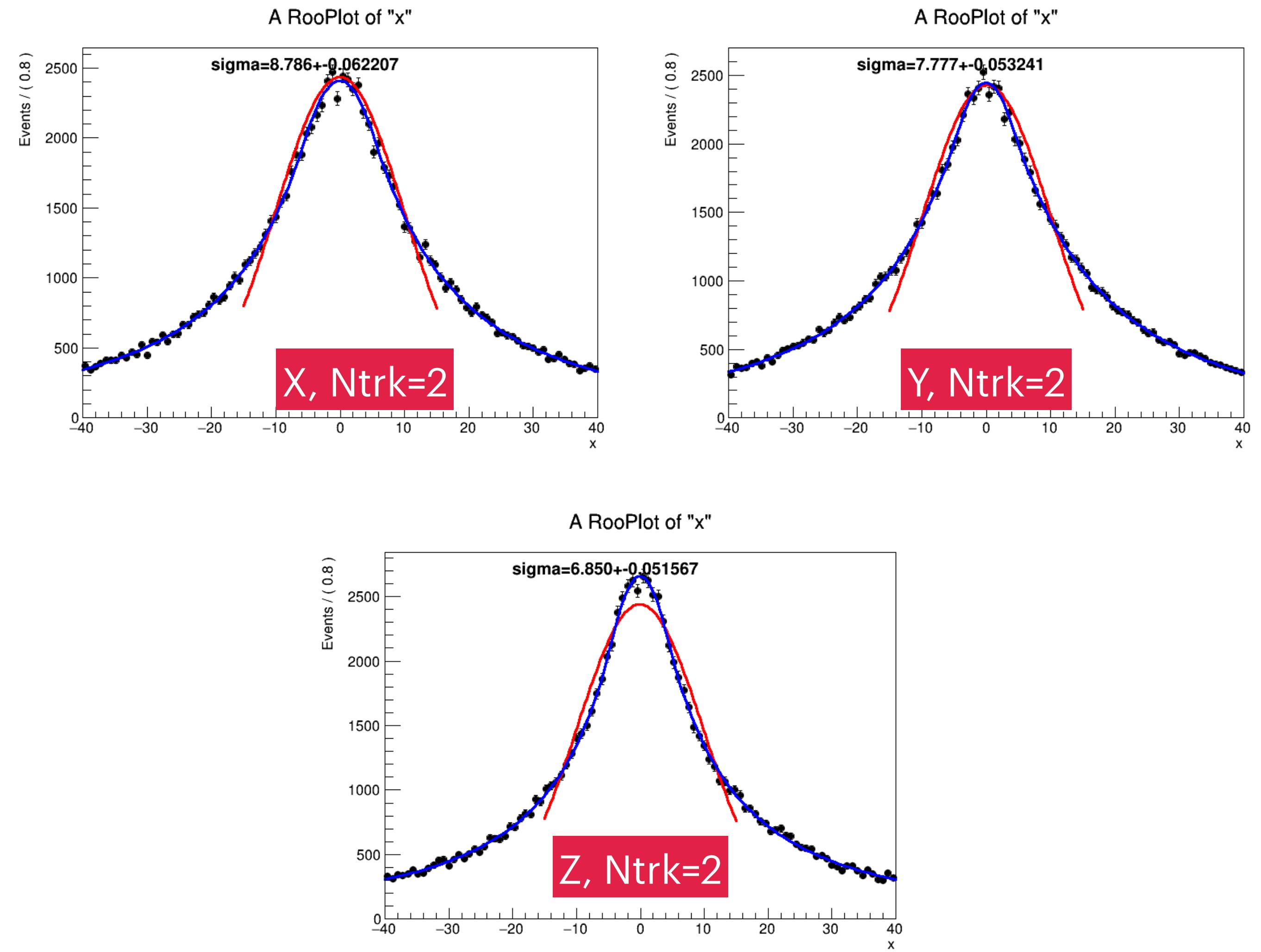
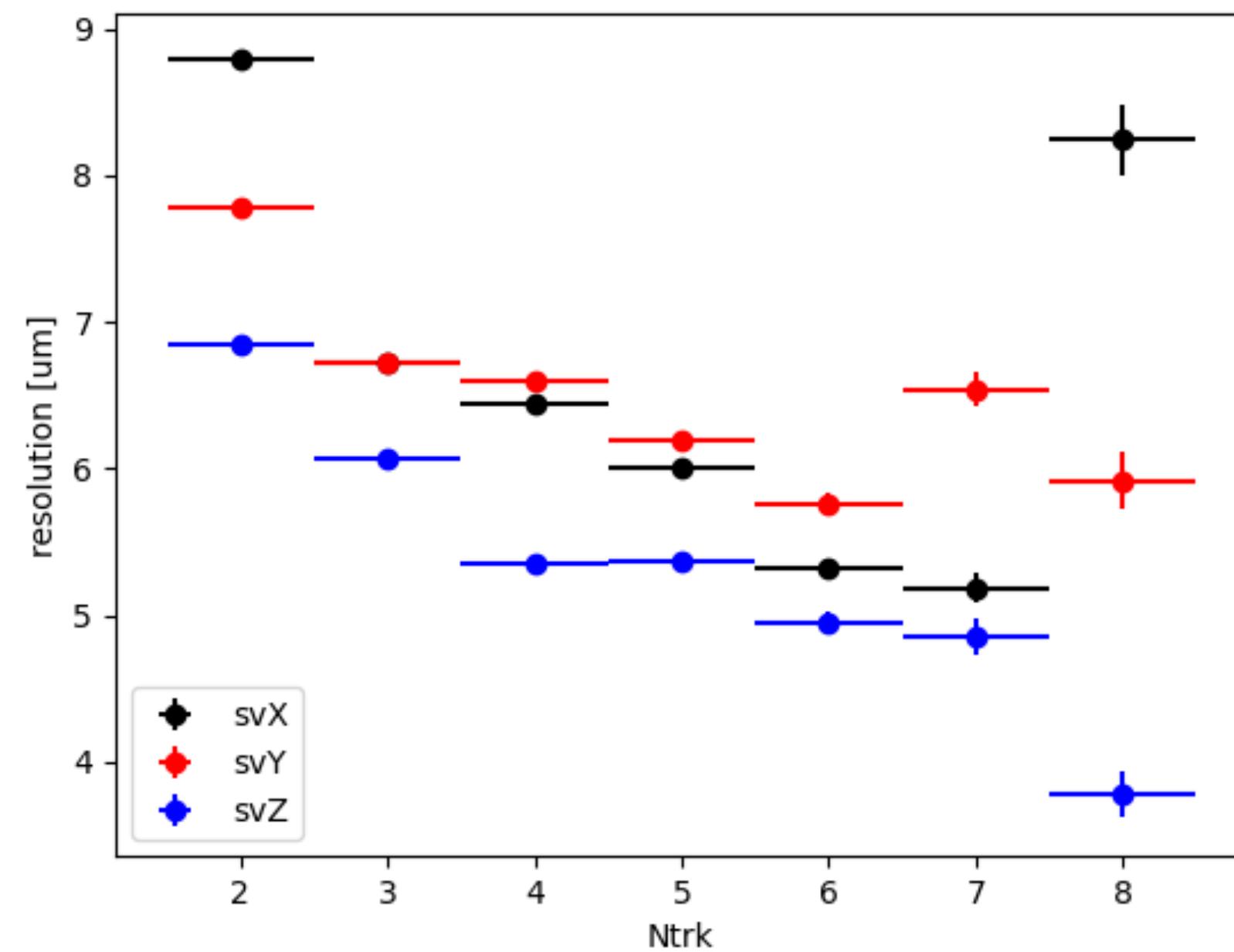
Primary vertex resolution

Resolution vs Nrk in XYZ

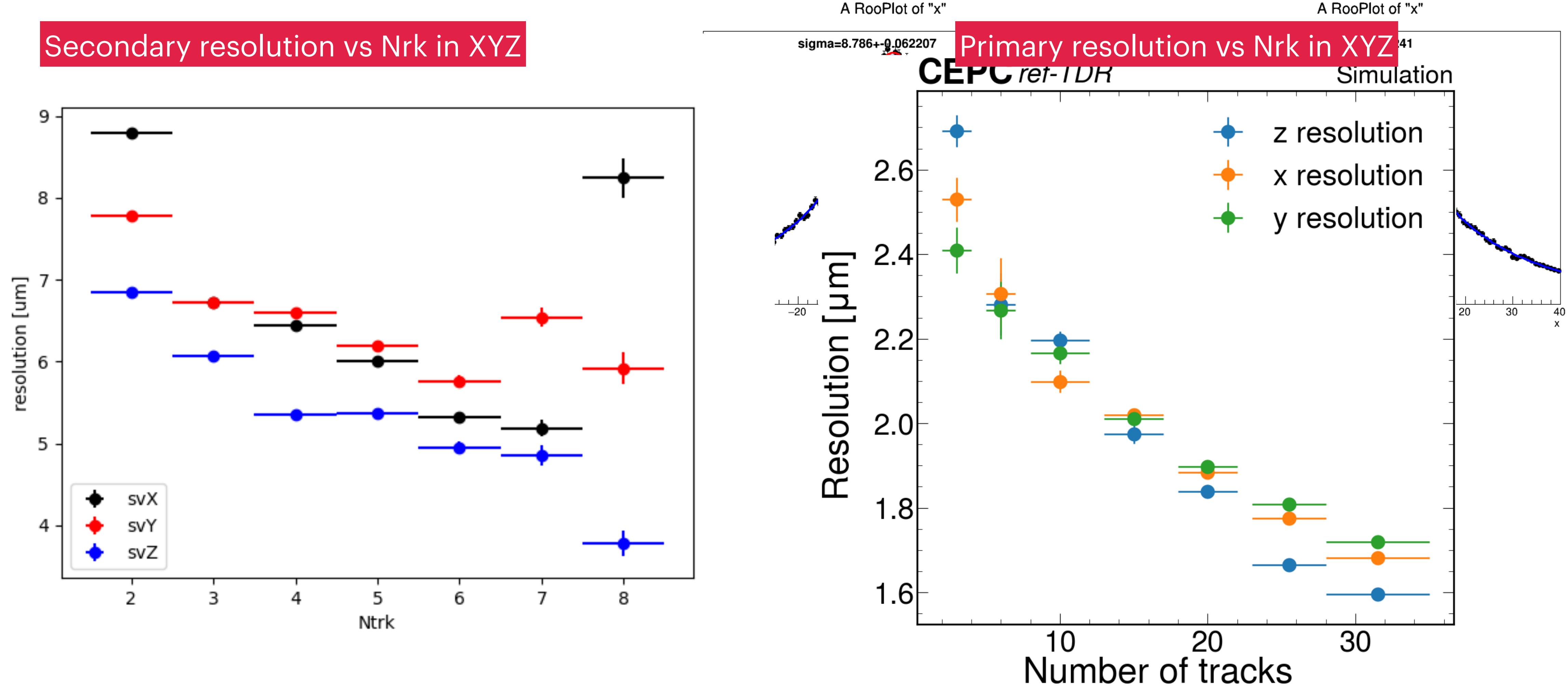


Secondary vertex resolution

Resolution vs Nrk in XYZ

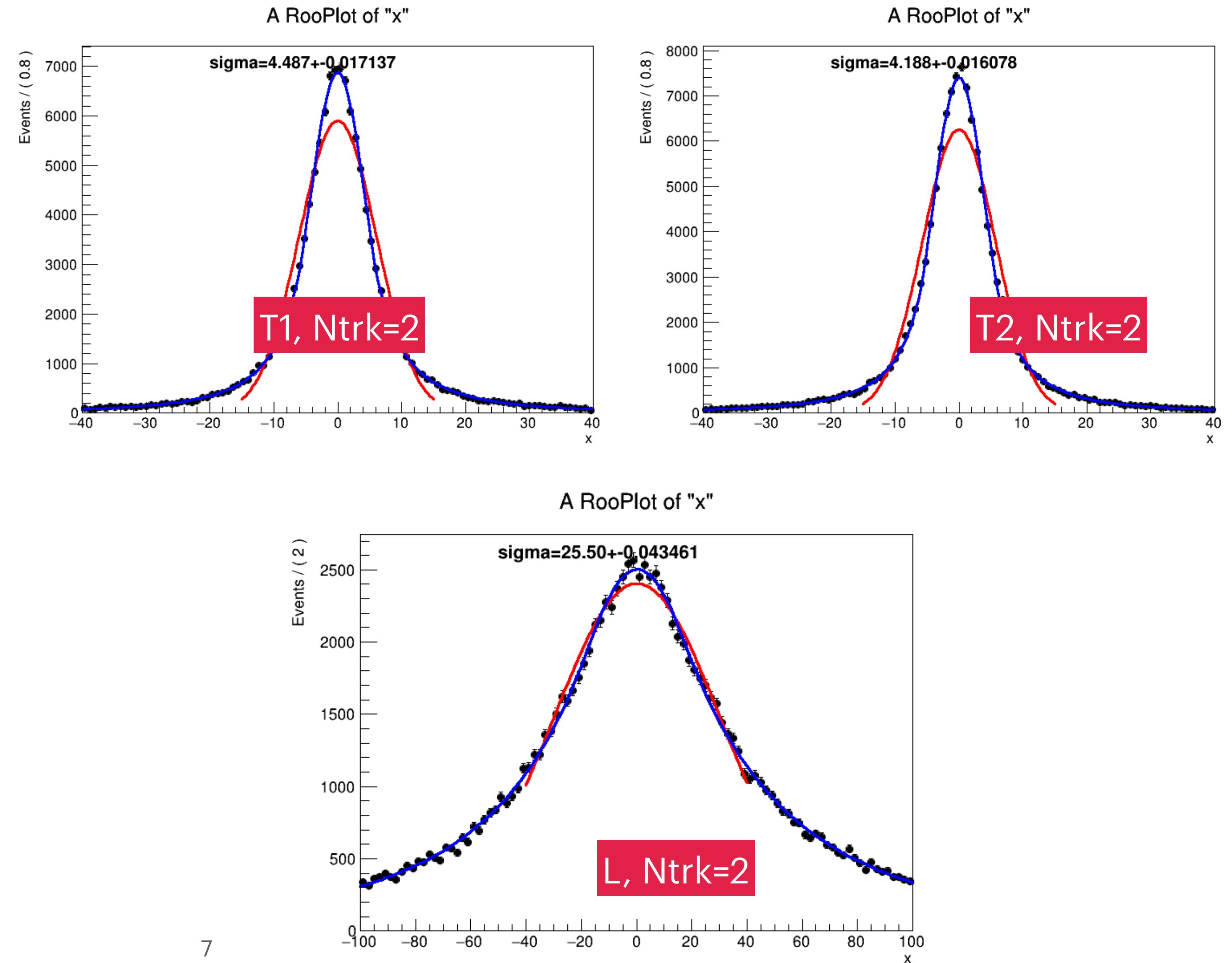
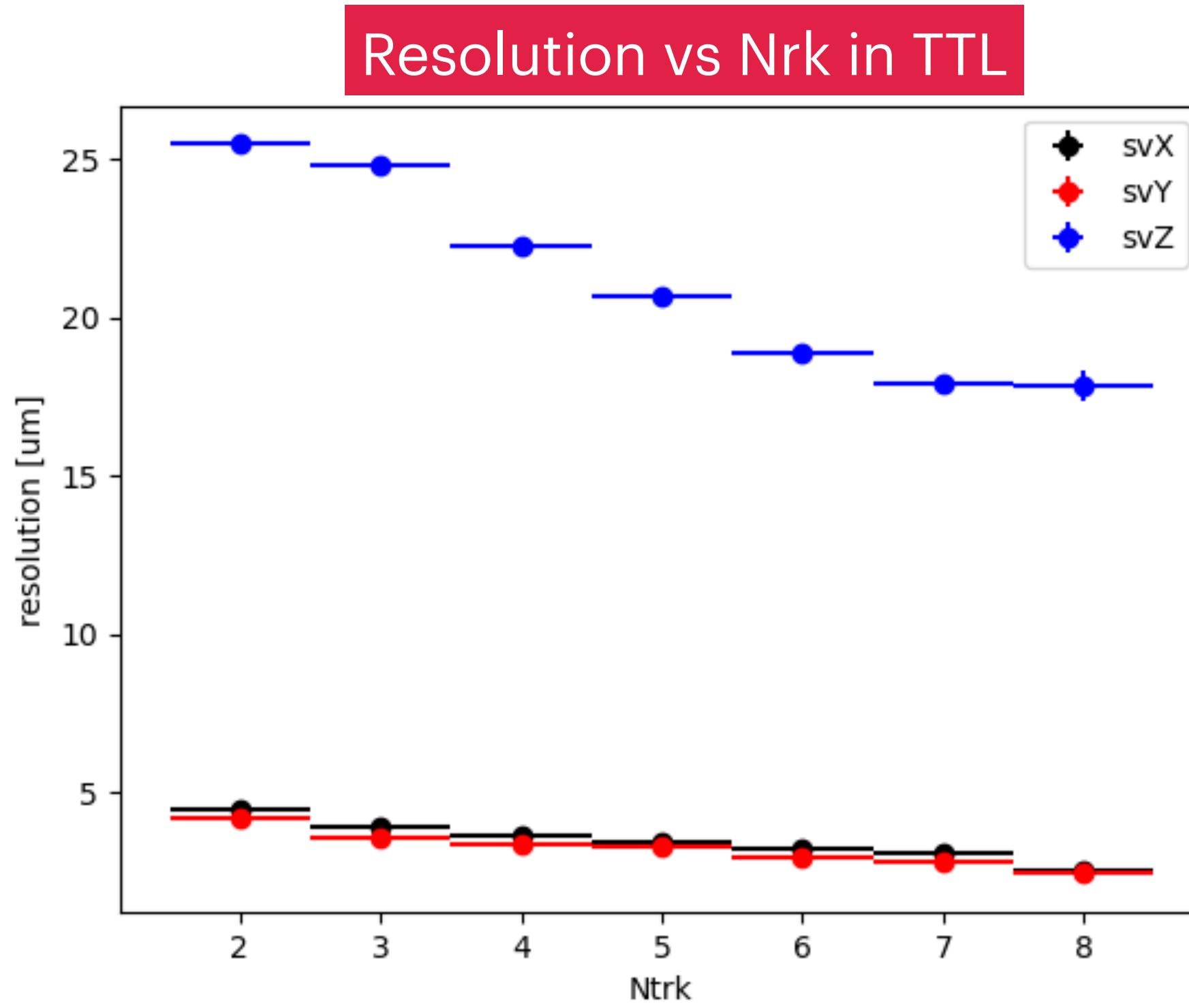


Secondary vertex resolution



Secondary vertex resolution

Transform XYZ coordinates to TTL by rotating the Z-axis to align with jet direction



Secondary vertex resolution

Resolution vs Lxyz in TTL, Ntrk<4. Additional checks needed

