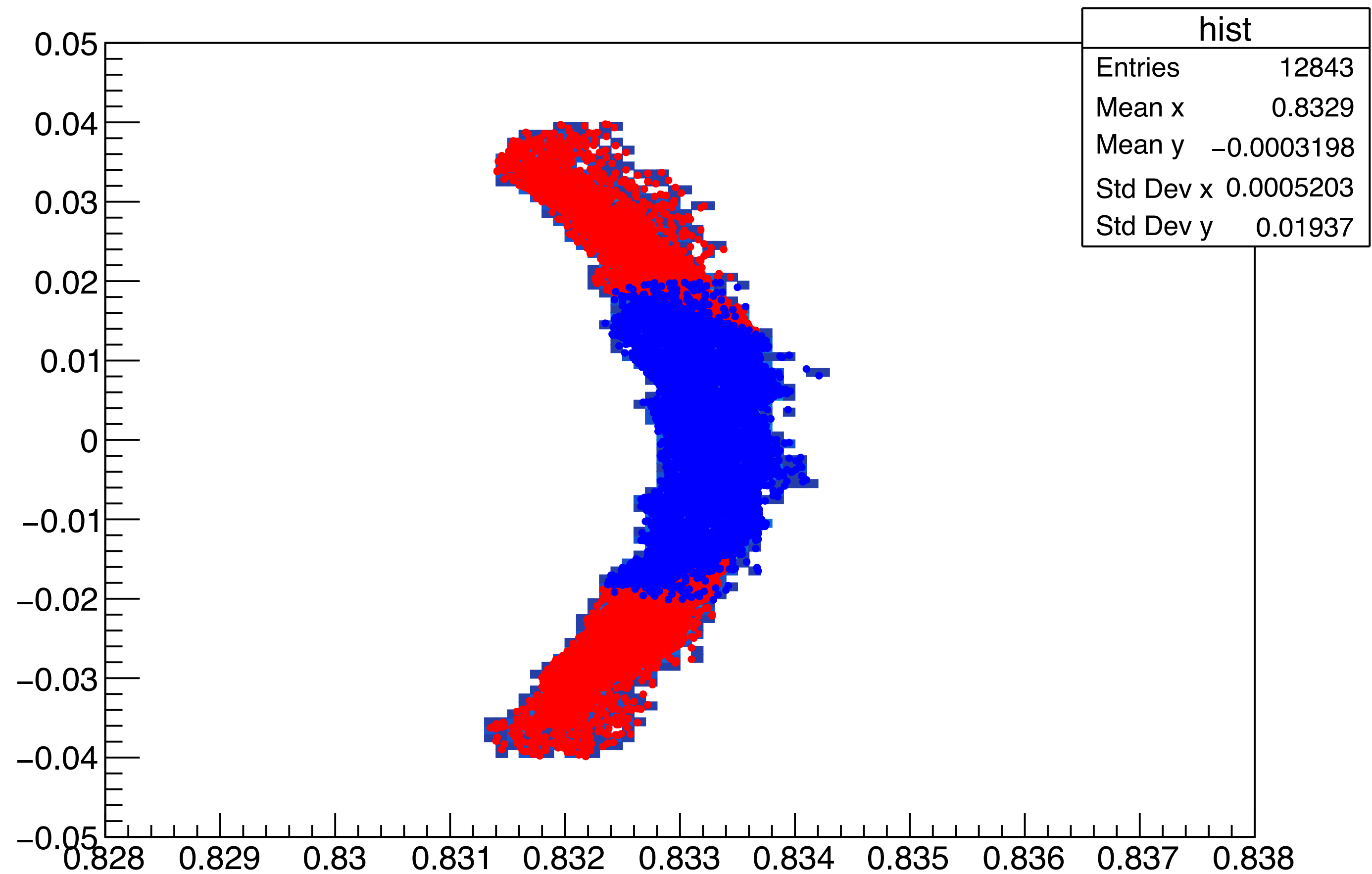


Focus on Focal Plane

- 30 MeV electrons at focal plane
- $\pm 1.35^\circ$ in-plane
- $\pm 5.00^\circ$ out-of-plane
- no multiple scattering
- spread ~ 1.5 mm in X at given Y
- X axis is distance from target [m]
- Y axis is transverse position [m]



Effect of Misalignment

- red and magenta show broadening if GEM ± 5 mm vertically from focal plane
- broadening ~ 3.5 mm
- need to study with Monte Carlo including multiple scattering and radiative effects

