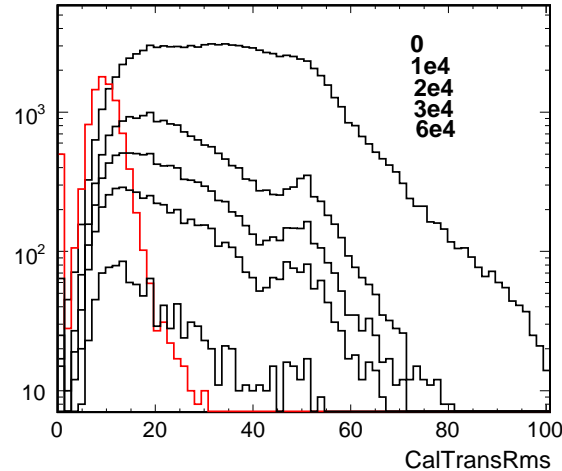
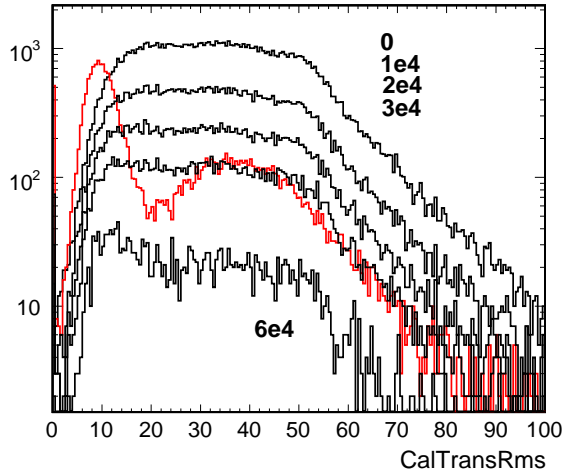


Use proton runs and compare MC and data CalTransRms distributions

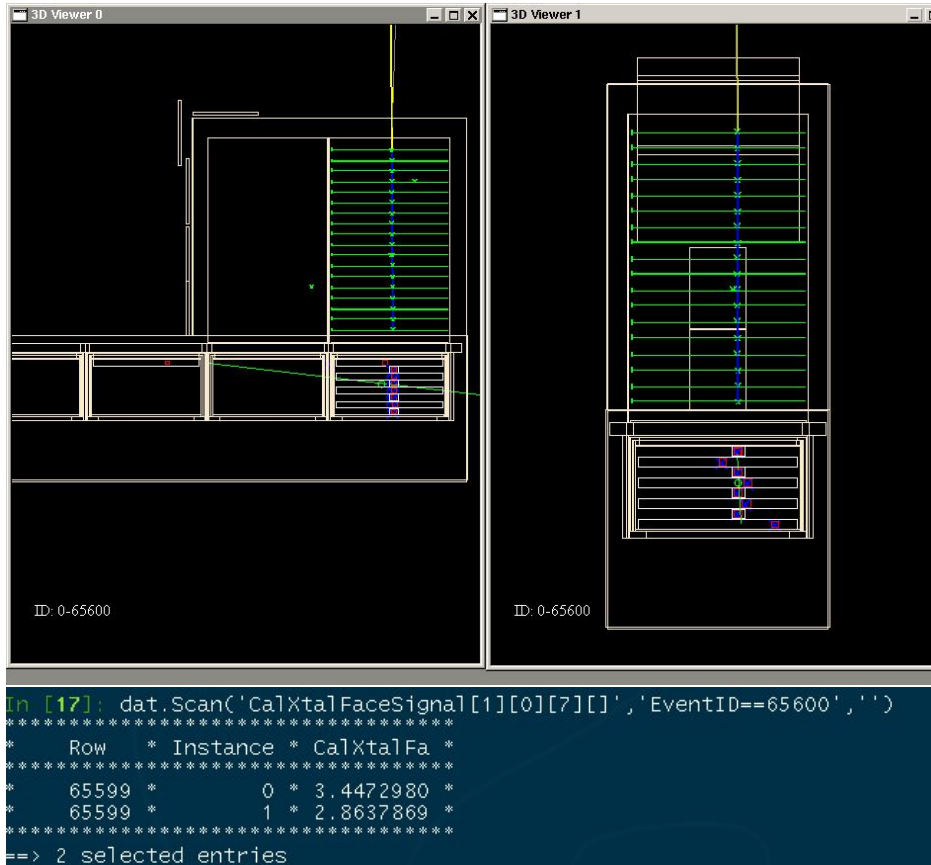
Data sets are

- recon-v2r71215p0_700001423_merit_merit.root
- svacTuple-v2r71215p0_700001423_svac_svac.root
- MC BT-1423-v7r1117p1He-QGSP_BERT-merit.root

CalTransRms with progressive cuts in GemDeltaEventTime



- Right plot: Remove most non-MIP protons by constraining all 7 layer energies to be < 20 MeV simultaneously.
- MIP from data and MC converge for high GemDeltaEventTime cuts (this was a high intensity run..)
- Small ($\sim 10\%$) offset towards higher values for data probably due to 20% broader MIP σ_L energy distributions (see Meeting 35 presentation).
- Peak appearing at CalTransRms ~ 50 not related to energy misreconstruction.



- Refine study on MC/data CalTransRms for MIP events - broadening the MC MIP distributions will probably improve the agreement.
- CalTransRms very sensitive to remote low energy events - clustering would cut these?