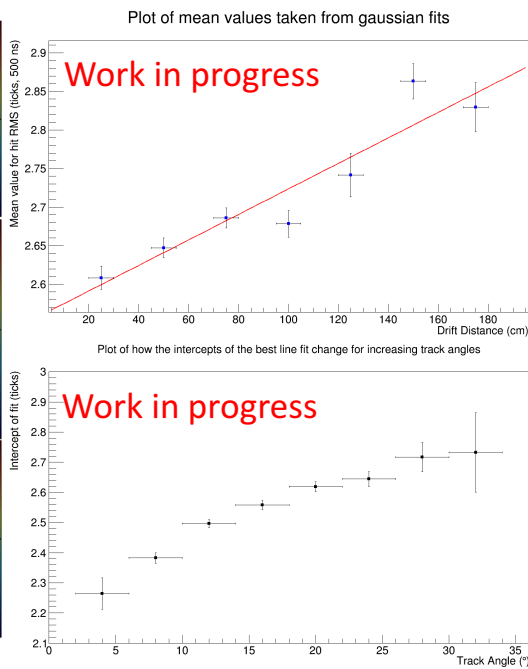
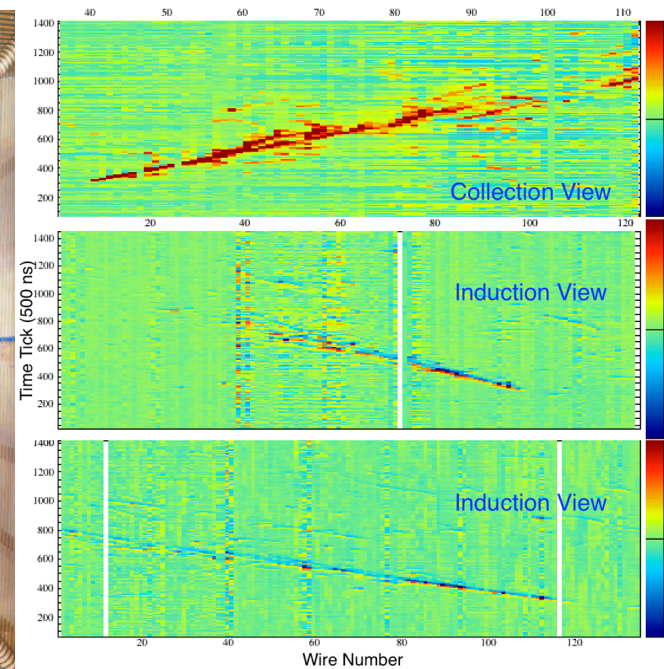
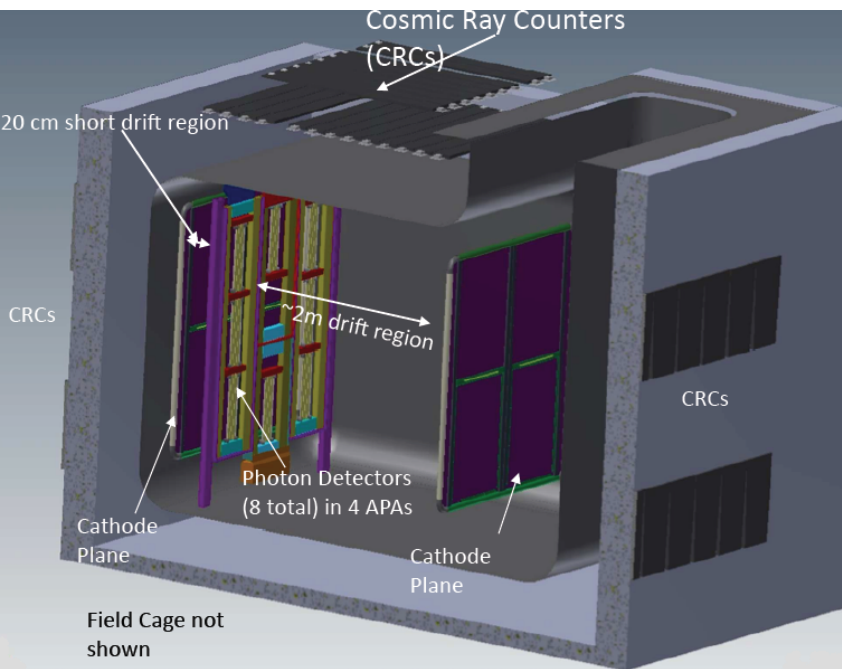


The design goals of the DUNE 35-ton Liquid Argon prototype and the first results from operation

Thomas Karl Warburton, University of Sheffield, for the DUNE collaboration

Poster 413 – shown on Saturday 6th August



- **The 35 ton is the first DUNE single phase LArTPC prototype and has many features of a full 10 kton module.**
- Run 1 showed membrane cryostat can hold high purity Lar
- Run 2 showed purity is not limited by detector components and that reconstruction is possible across multiple drift volumes.
- Many analyses underway including measuring the effect of electron diffusion in liquid argon which is the subject of my poster.
 - The Gaussian width of hits is observed to increase with drift distance and track angle, shown in the plots above.