DRAFT Charge to the DUNE MetaData Task Force

July 5, 2020

The DUNE Metadata Task Force (DMTF) will be constituted by representatives of the DUNE DAQ Physics Performance Working Group, DUNE DAQ Data Flow Working Group, the Offline Processing Group, the Calibrations Consortium, the DUNE Database Group, the DUNE Photon Detector System Consortium, and the DUNE TPC Cold Electronics Consortium.

The DMTF will begin with the existing "minimal" Metadata template definitions, found at

`https://wiki.dunescience.org/wiki/Minimal_Metadata_template`

and the SAM Metadata Standards found at

`https://wiki.dunescience.org/wiki/SAM_Metadata_Standards`

to develop a concordant set of metadata for the upcoming ProtoDUNE II runs, and with an eye toward developing a basis for the DUNE Far Detectors.

The focus for the DMTF will be:

- developing a coherent division between what metadata will be included in the DUNE data stream, and what belongs in configuration or conditions data bases;

- only on data that comes from the detector, including the cold electronics and WIB, the Photon Detector system, Calibrations, and Upstream DAQ, Data Selection (including the High Level Filter), and Data Flow/Run Control.

- ensuring that offline data analyses can access all critical information whether that information comes from databases or data stream itself;

- on developing the minimal set of metadata that is needed, understanding that much of what could be included may not have been defined yet for some subsystems.

It is envisioned that the Task Force would meet four times for extended (up to two hour) meetings, with an additional fifth meeting as an option. The target date for completing the Task Force's work is the end of Calendar Year 2020. The deliverable will the explicit definitions of what will be included in the data stream and what will go to the data bases, with additional options for adding more information to the data stream as subsystems develop further, but with the guidance developed by the task force for what belongs in the data base and what belongs in the data stream followed as things evolve further.