

Visualising Event Data from the Transition Radiation Detector in ALICE at CERN

Friday 31 January 2020 14:00 (15 minutes)

The Transition Radiation Detector (TRD), part of the ALICE Experiment at CERN, is used for electron identification, triggering and tracking. This work presents a prototype of an event display, customised for the TRD, that provides a portable, projection based display of tracks, tracklets and raw data within the detector, outside the classic ROOT environment. The prototype provides a novel ability to view ADC level data associated with displayed tracklets, as well as a 3-dimensional interactive view. This work lays the foundation for development of future browser-based event displays, and provides guidance for user-centric design in this space.

Author: PERUMAL, Sameshan (University of Cape Town (ZA))

Co-author: DIETEL, Thomas (University of Cape Town (ZA) (UCT))

Presenter: PERUMAL, Sameshan (University of Cape Town (ZA))

Session Classification: Session VI