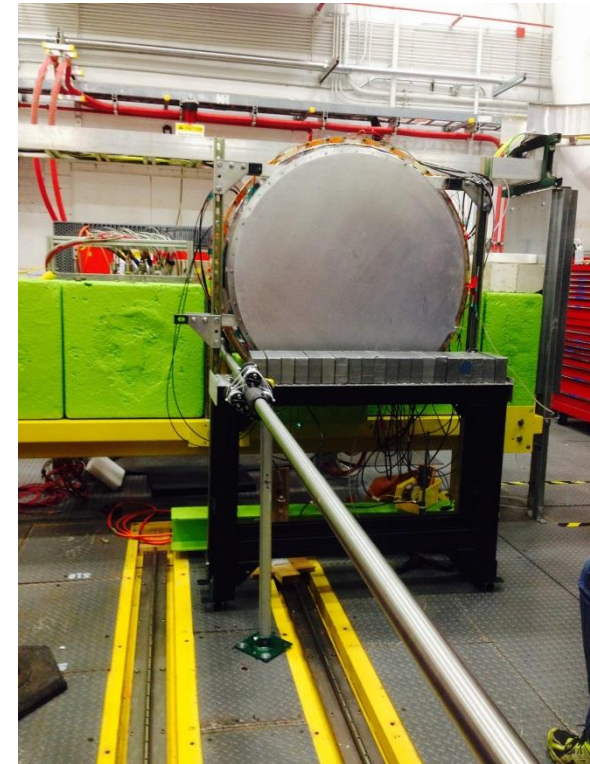
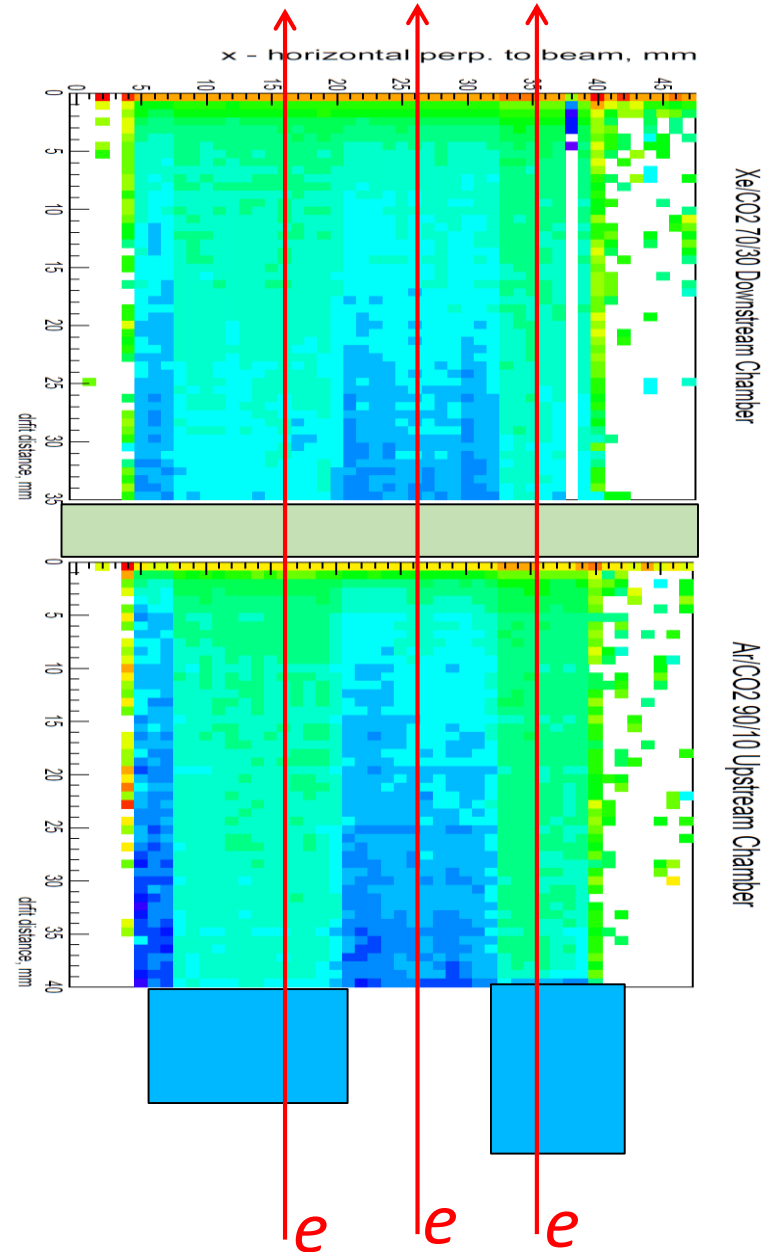
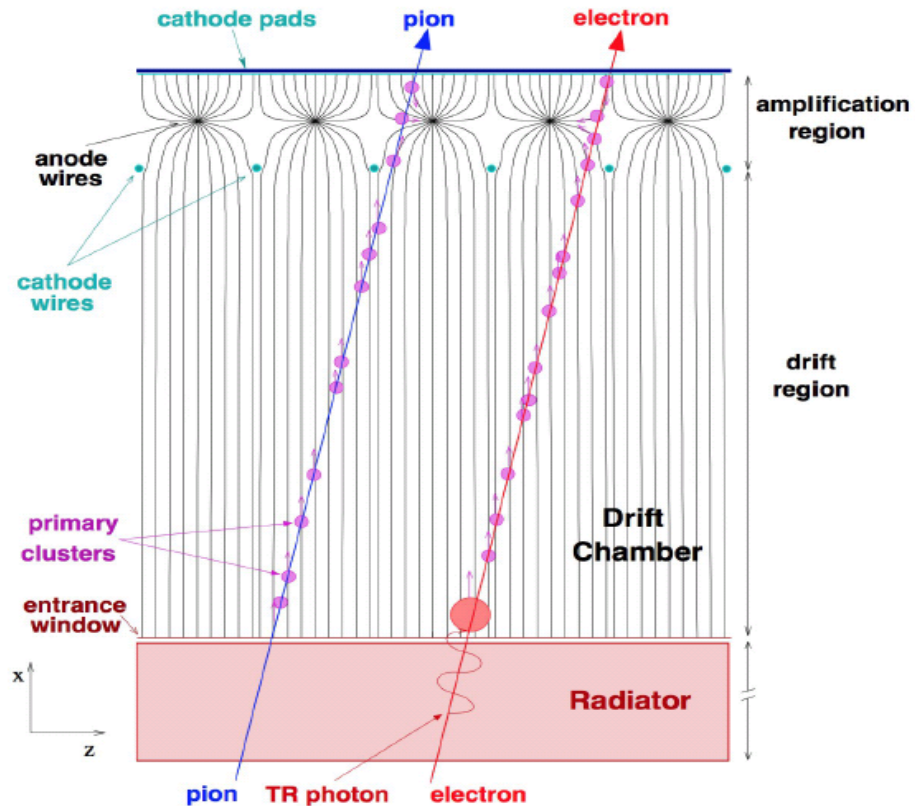


# Transition Radiation Detector – R&D studies

- $e/\pi$  separation: for  $p > 1.5$  GeV,  $\pi$  suppression factor 100-1000 depending on # of chambers
- Prototype tests done with Ar and Xe gas mixtures, using electrons with/without radiator
- Chamber design similar to ALICE TRD:



Color represents the deposited charge per track

# Transition Radiation Detector - Prototype

