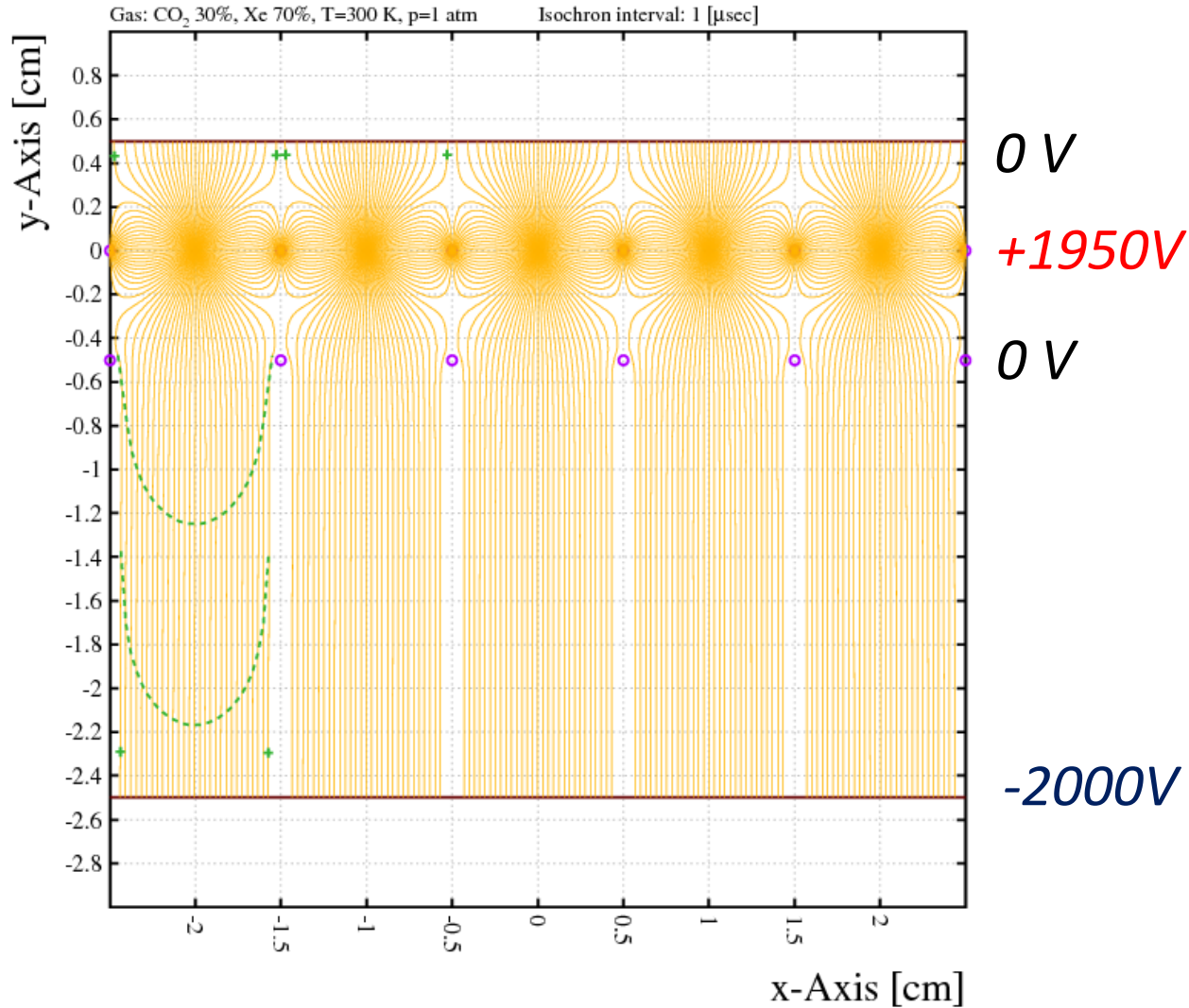
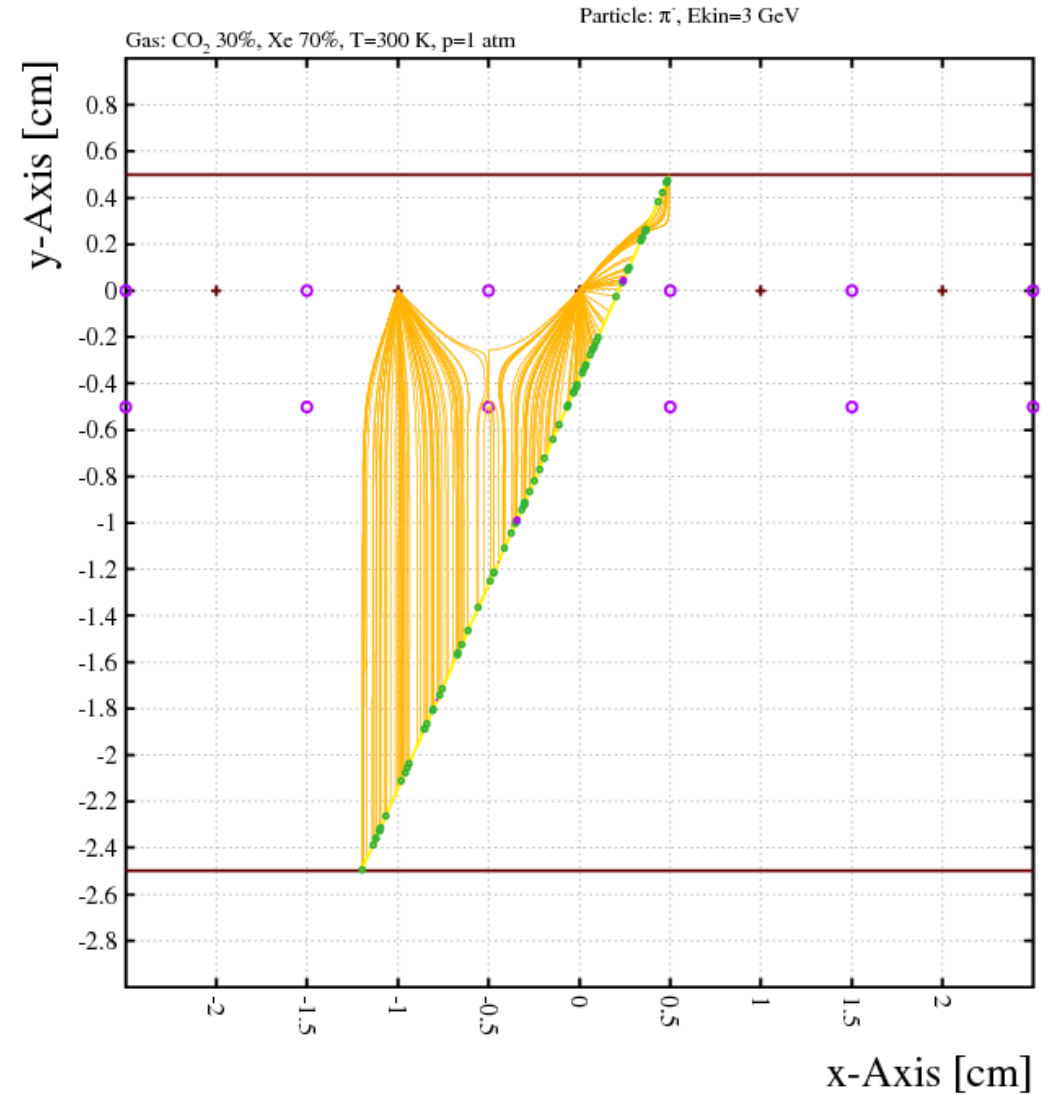


Transition Radiation Detector – Drift Chamber Prototype

Positron drift lines from a wire

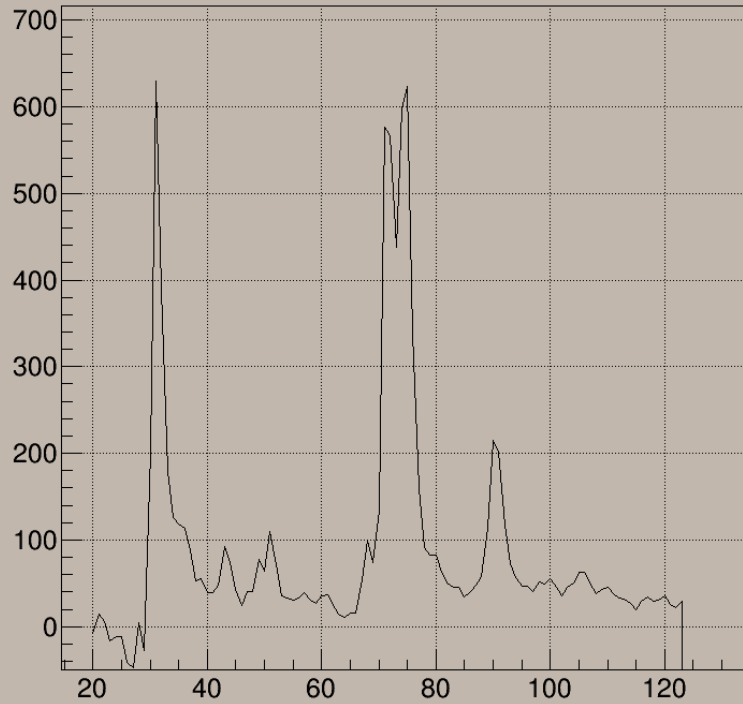


Electron drift lines from a track

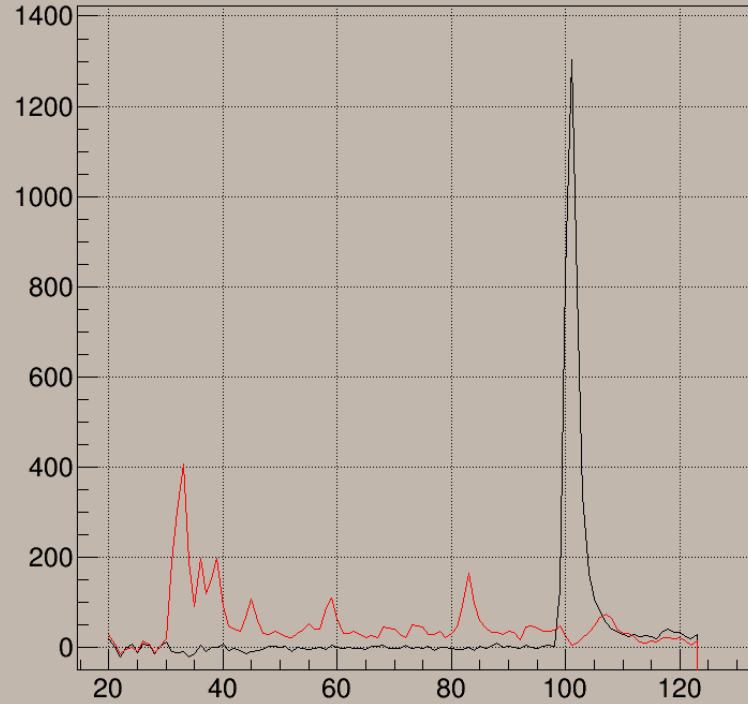


TRD – single event examples

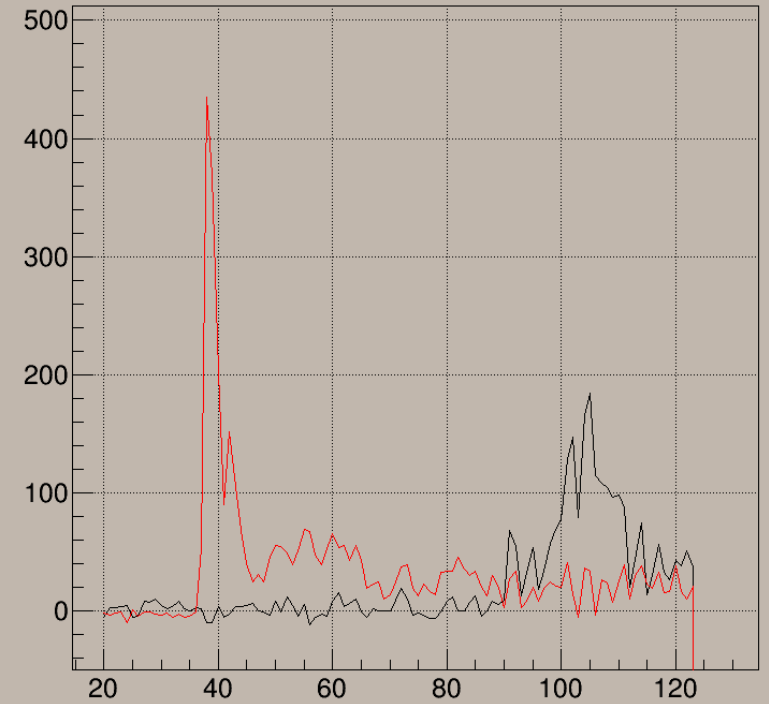
f125 samples



f125 samples

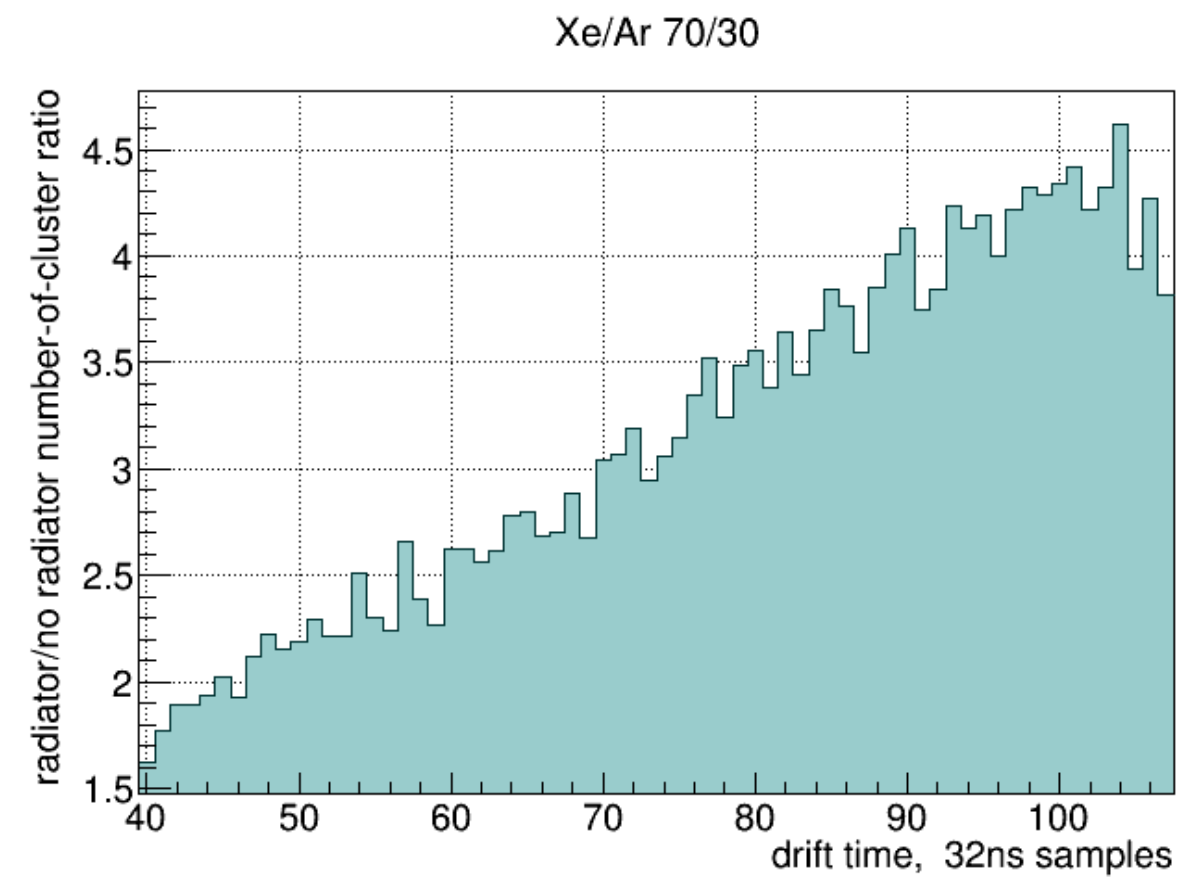
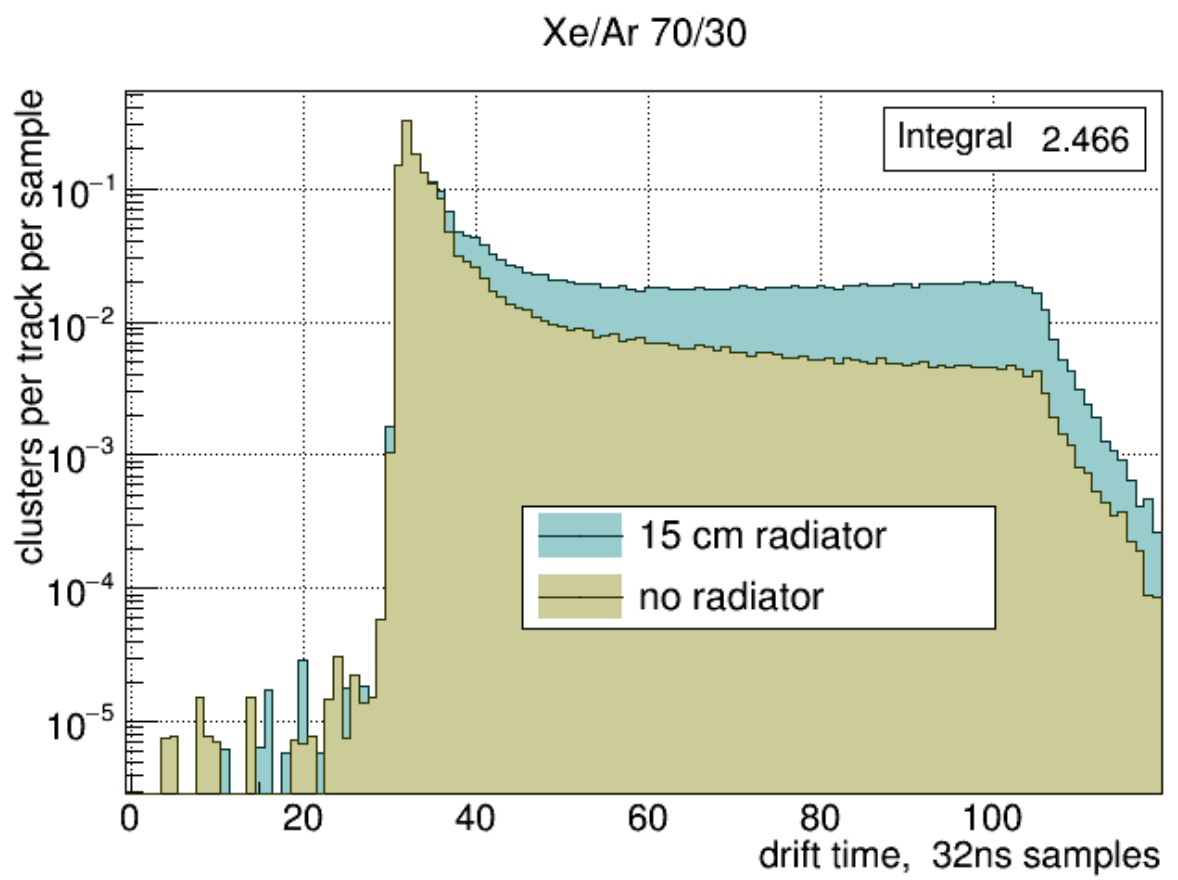


f125 samples



f125 samples of 32ns – colors correspond to different wires

TRD – first results

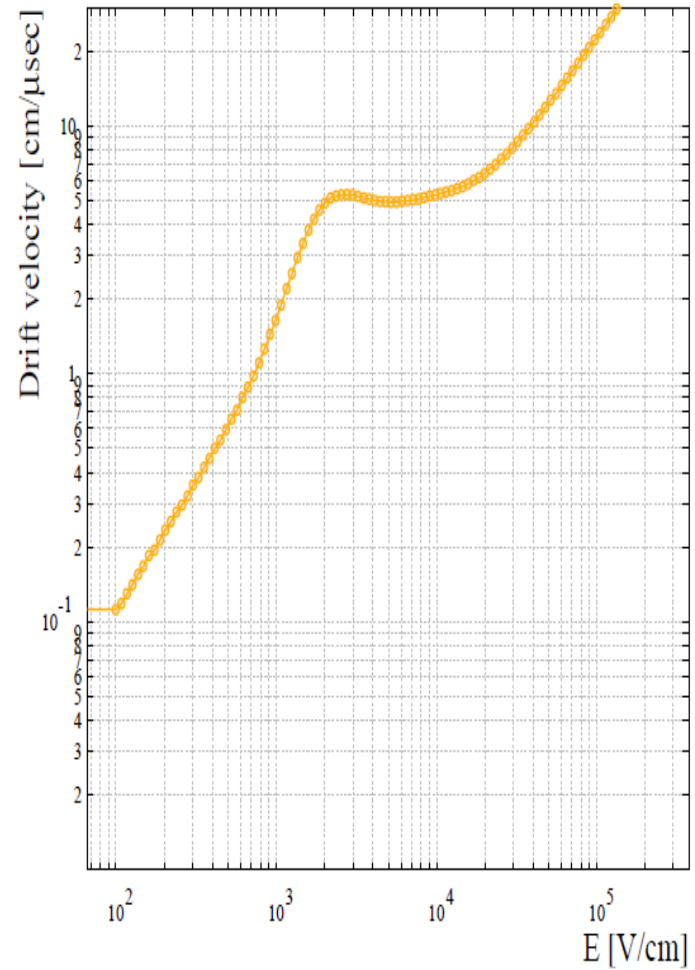


Threshold for cluster counting = 300 fADC units

TRD Drift Chamber Prototype – with Ar and Xe

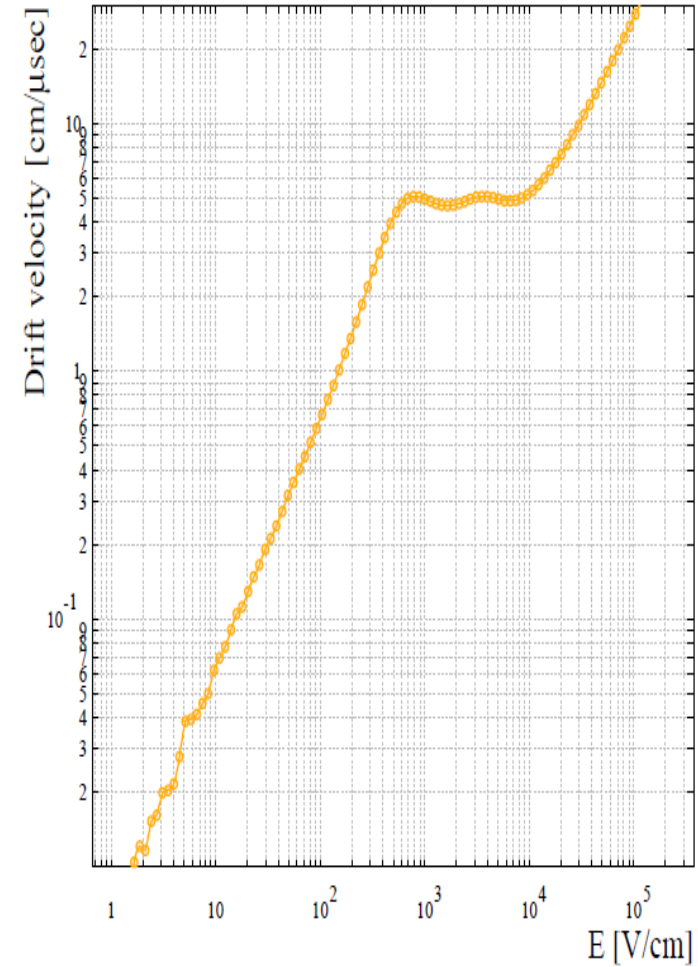
Drift velocity vs E

Gas: CO₂ 30%, Xe 70%, T=300 K, p=1 atm



Drift velocity vs E

Gas: CO₂ 9.9818%, O₂ 0.0020004%, Ar 90.0162%, T=300 K, p=1 atm



Transition Radiation Detector - Prototype

