

Studies on a TPC test beam using double GEM module with a gating foil

Wednesday, 24 October 2018 09:00 (30 minutes)

Micro Pattern Gaseous Detectors (MPGD)-based TPC is proposed as centraltracker in the ILD for the ILC experiment. As the advantages of MPGD, ExB effect is small and a few millimeter 2-track separation is possible compared with MWPC readout. Electron Multipliers (GEM) or Micro-Mesh Gaseous Structure (Micro MEGAS) are candidate as MPGD-readout technology. Gas detector such as the MPGD has a issue of discharge. We performed the beam test using a large prototype TPC equipped with readout module with double GEM. And the gating foil to suppress ion feedback was set on the readout module. I report the analysis result including condition of discharge.

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Session Classification: VTX/TRK 3