



Contribution ID: 142

Type: **not specified**

## Study of GEM gating for ILC TPC

*Tuesday, 23 October 2007 15:30 (20 minutes)*

**Abstract:**

Gating, a suppression system of ion back drift, is one of the most important issues for ILC TPC. Wire was used as a gating system but a large ExB effect may degrade the position resolution in high magnetic field at ILC. GEM is a promising candidate of the gating system since the ExB effect is smaller due to its fine structure. But the electron transmission efficiency is not so high for some gas mixtures with standard GEM. We present a simulation study of the GEM gating system with various conditions.

**Presenter:** Dr ISHIKAWA, Akimasa (Saga Univ.)

**Session Classification:** ALCPG Detector Session II - Tracking