# Simulation of Track Distortion due to Inhomogeneity of Electric Field in Micromegas modules

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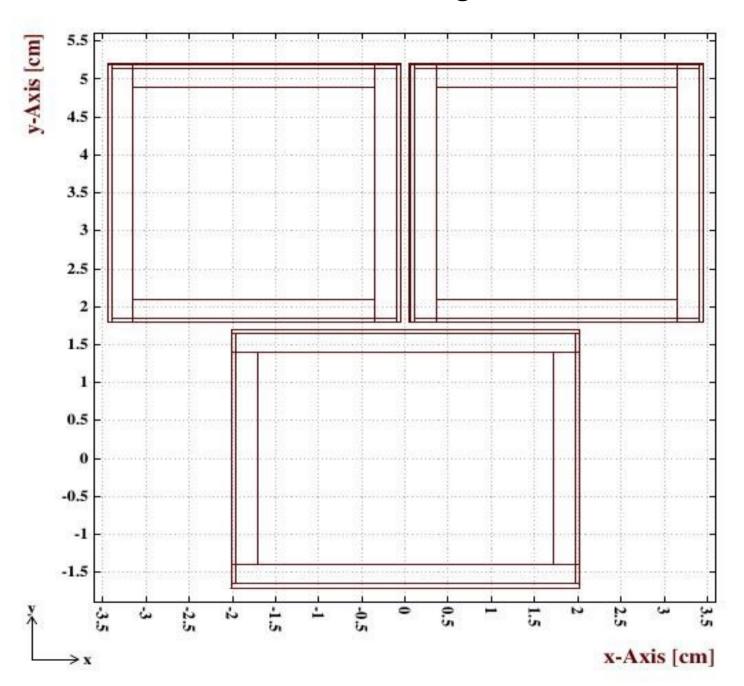
PhD student SINP, Kolkata & CEA Saclay

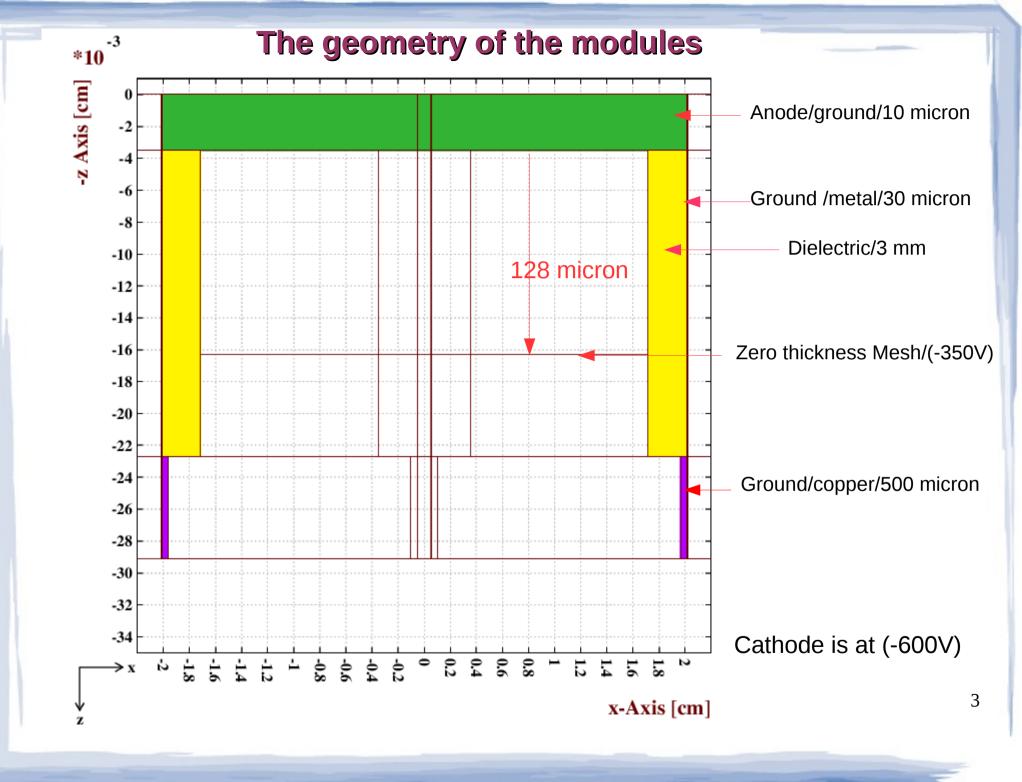
WP meeting 24 September 2015, SINP, Kolkata



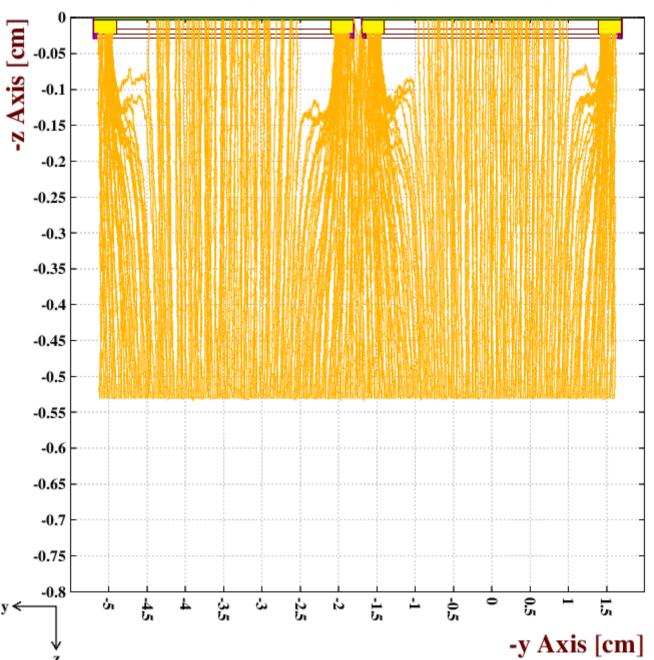


# The module arrangement

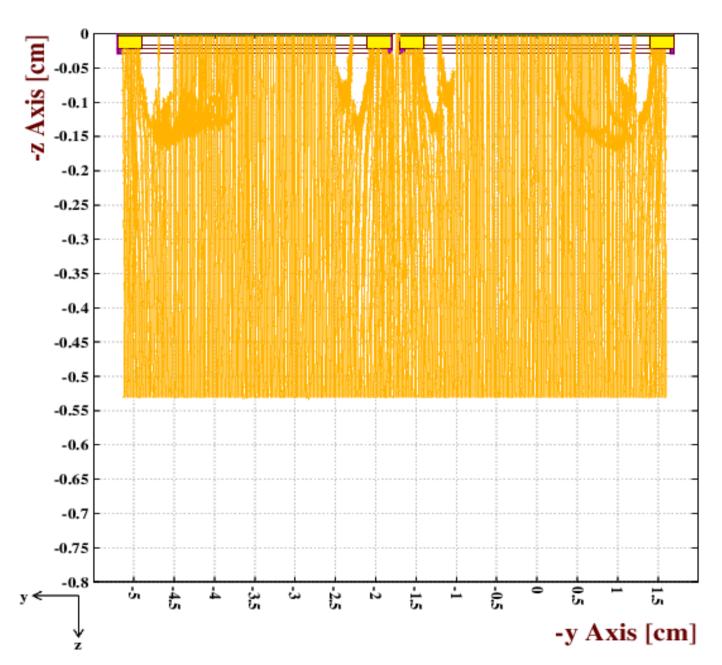




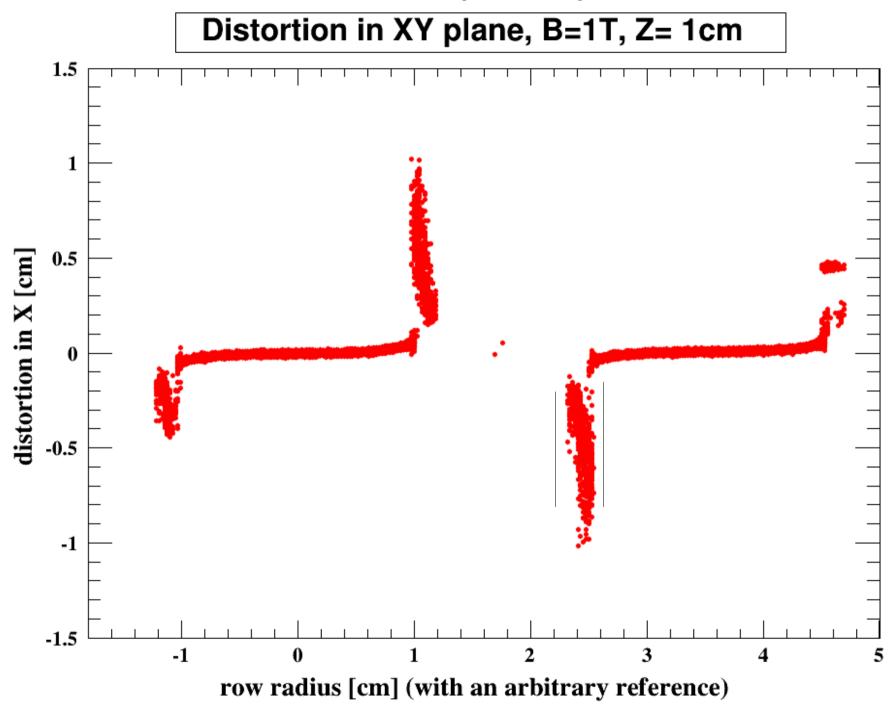
#### Drift of electrons (Monte Carlo) with out Magnetic field



#### Drift of electrons (Monte Carlo) at 1 T Magnetic field

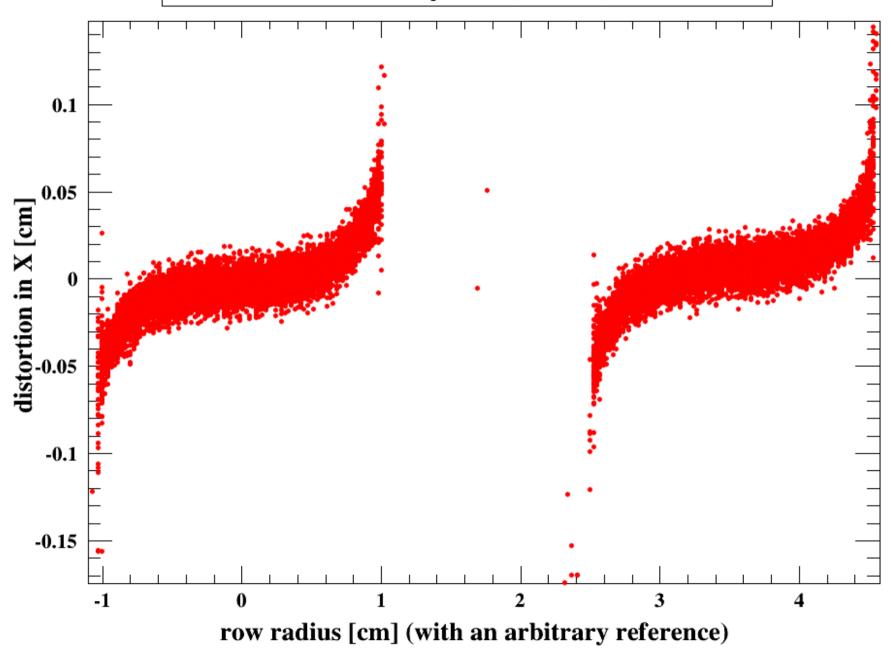




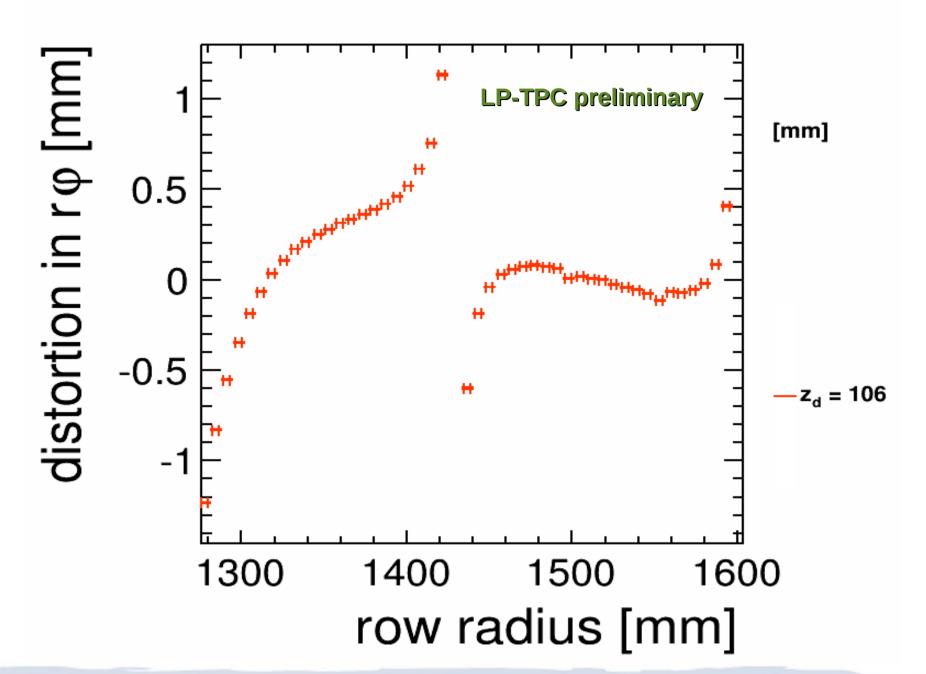


#### Simulation, preliminary results



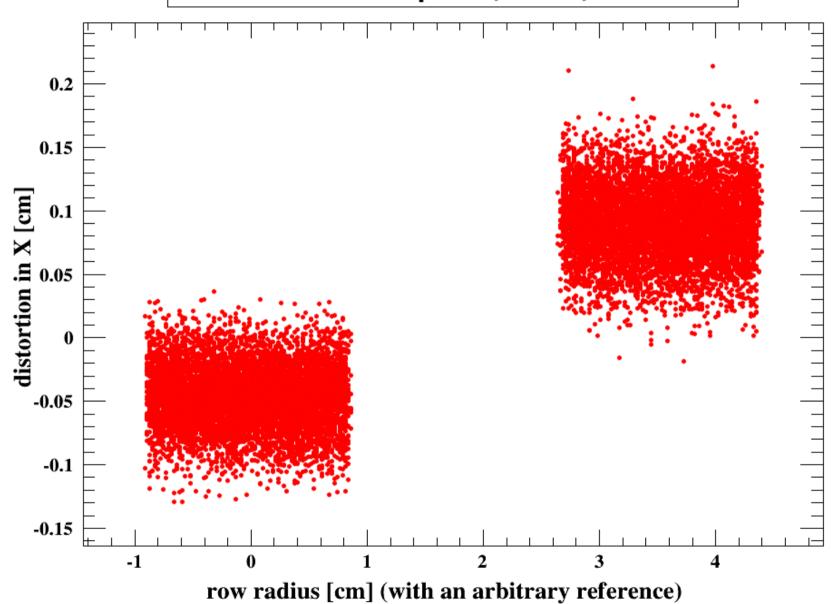


#### **Distortion for two Micromegas modules at LP-TPC**



#### Simulation, preliminary results

## Distortion in XY plane, B=0T, Z= 1cm



## **System used:**

- (1) DELL Precision T7500 Work Station/12 cores/ 72 GB RAM.
- (2)Xeon cluster @ 1.2 GHz/6 cores/ 16 GB RAM.

**Thank You**