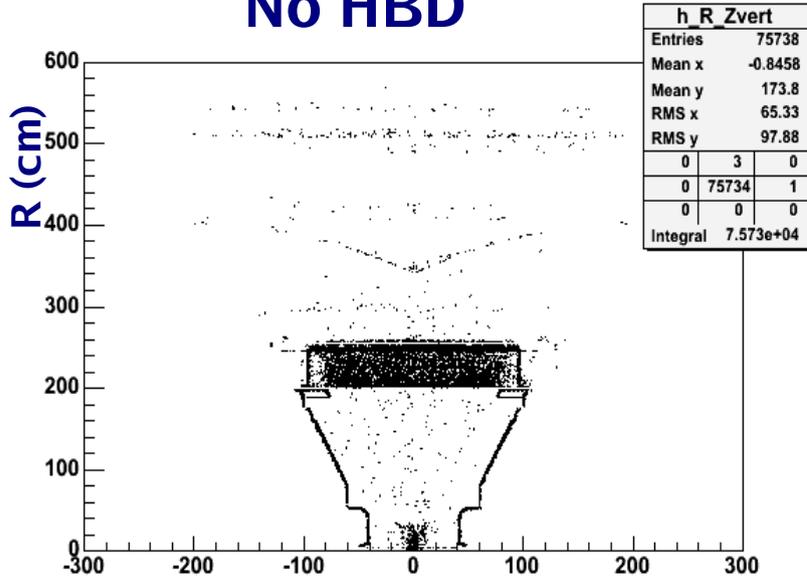


Simulation project

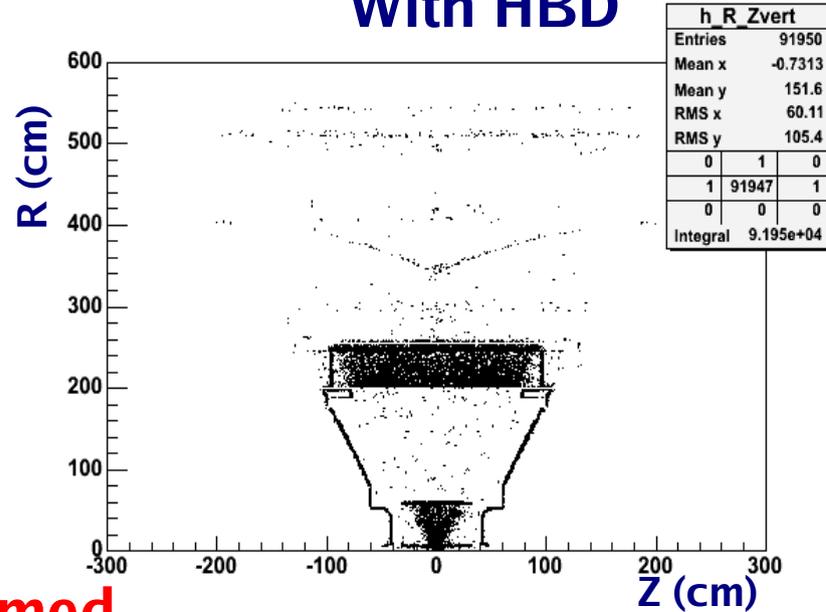
- We have started to generate PISAfiles to study Rejection factor and effect of HBD on Central arms.
- The input files are generated using HIJING with $b = 4.65 - 4.80$ fm, multiplicity $\langle dN_{ch}/dy \rangle = 650$.
- The PISA files are generated for two configurations
 - 1) No HBD
 - 2) With the present HBD status in PISA which doesn't include readout boards and pre -amps
- The goal is to generate 100K for each configuration. Right now we have 30K with “No HBD” and 60K with “present status of HBD”.
- The reconstruction software exists up to the pad information level. Clustering needs to be done.

Shown is the origin of electrons hitting PC1 at PISA hits level

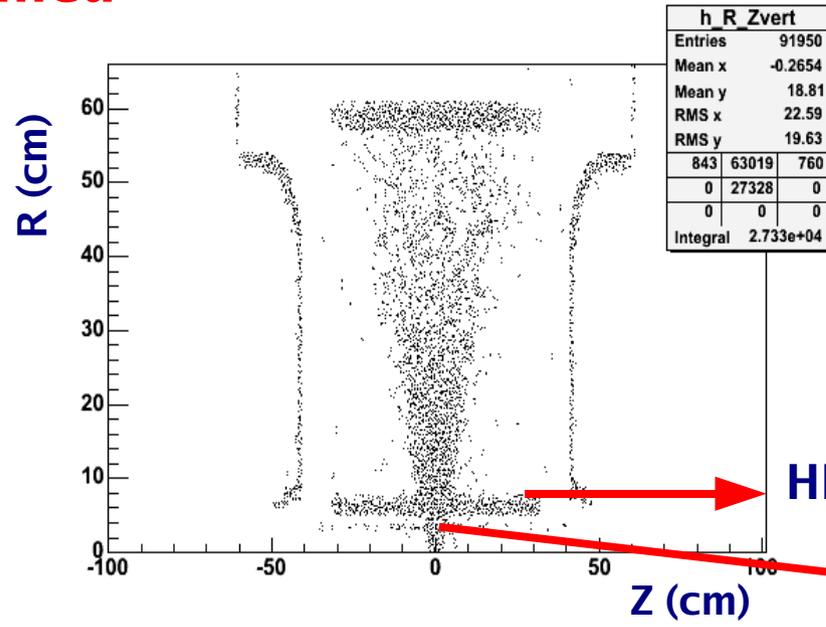
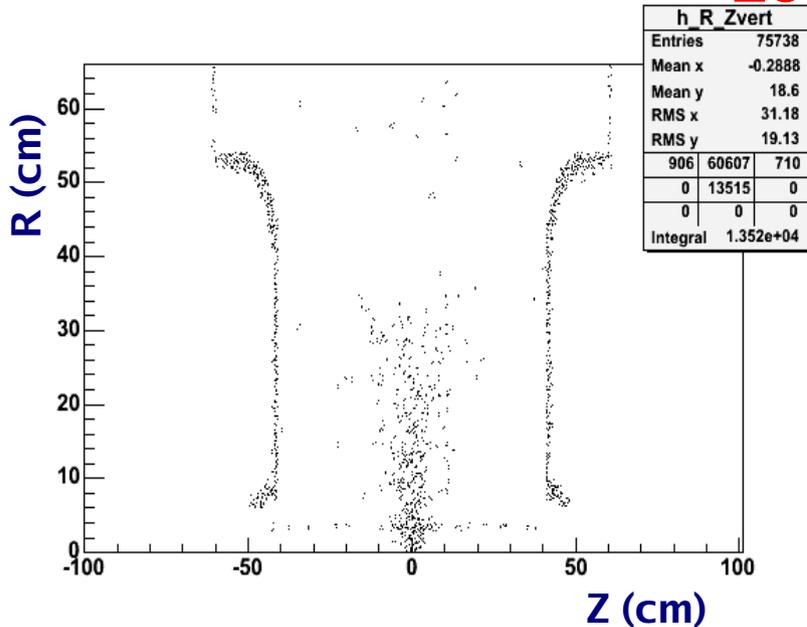
No HBD



With HBD



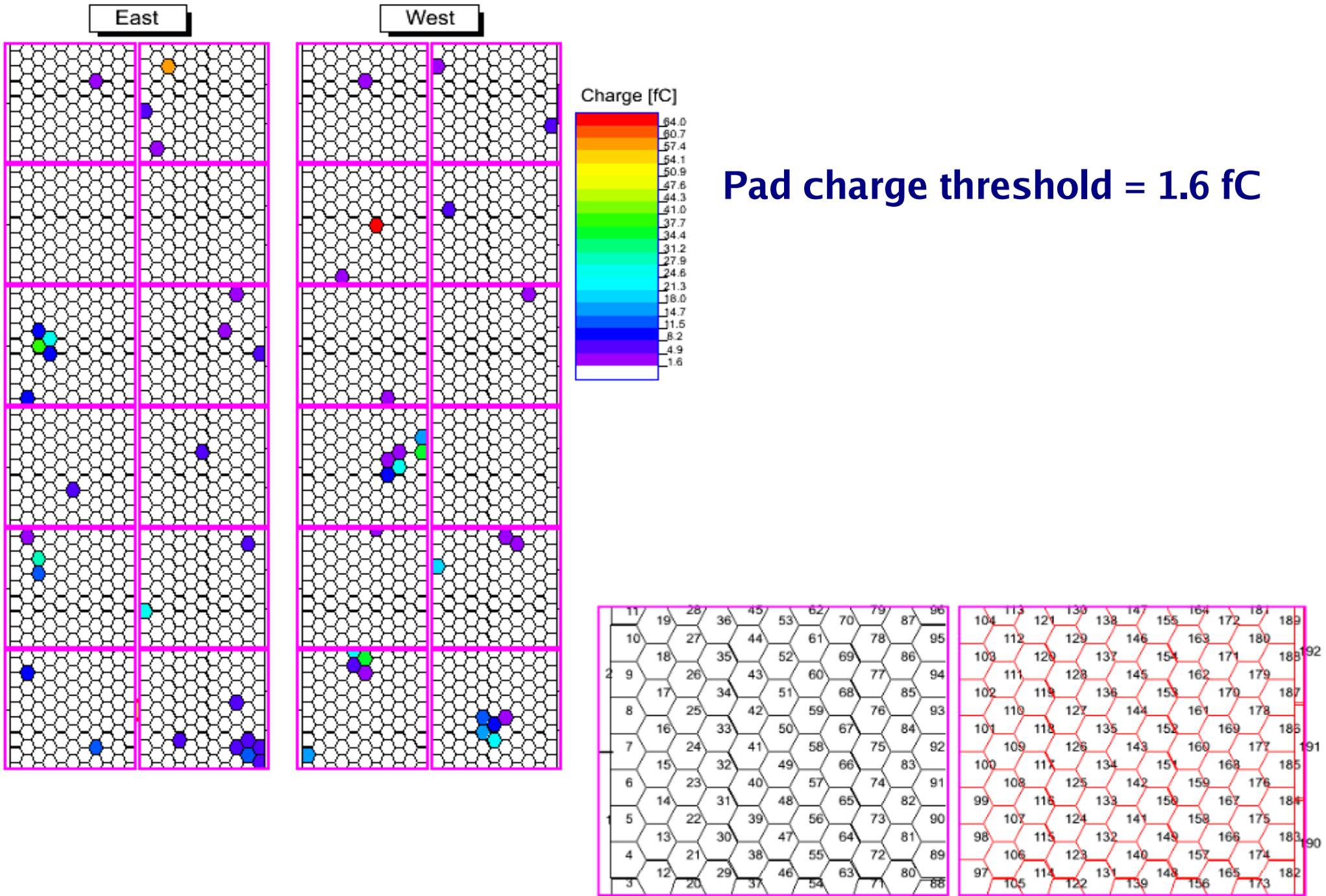
Zoomed



HBD window/frame

Beam pipe

Event Display



HV Software

- **Basic scripts needed for HV software exists namely**

config_hbd.dat (id of Gems and Meshes)

HbdHVControl.pl (Gui for shift crew, Takao is preparing this)

hvcontrol_HBD (which defines the necessary parameters required by HV software such as ramp up/down, standby/operating voltages, settrip current, enable/disable etc).

- **Will add another script for trips recovery.**
- **Need to test High Voltage.**