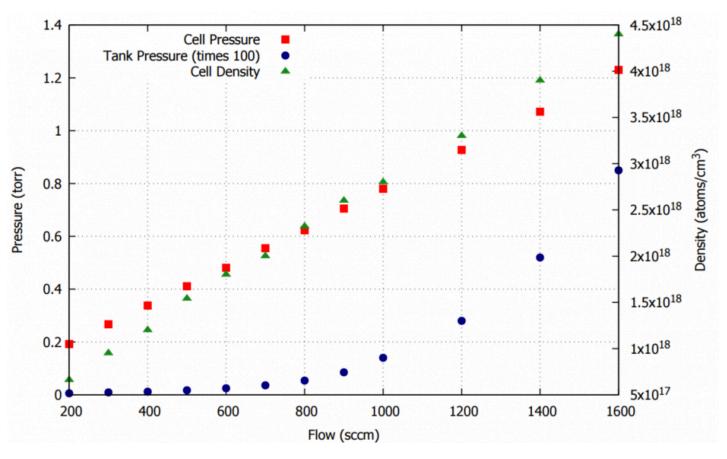
PRad RC Report

for the week May 16 to 23, 2016

Beam Accounting and Status

- ✓ Friday, May 20:
 - ~ 5 pm, first beam in Hall;
 - beam tune up 11 pm;
 - From 11 pm HyCal+GEM checkout/equalizing started;
- ✓ Saturday:
 - very quite and nice beam;
 - few "controlled access" for electronics;
 - One major access for engineering (noon to 2 pm);
- ✓ Sunday
 - Continue HyCal+GEM checkout/equalizing
 - Few "controlled access" for electronics
 - One major access for engineering (from ~ noon to 3 pm)
- ✓ Overall, very stable, reliable and productive beam throughout the weekend!

H₂ Gas Flow Target

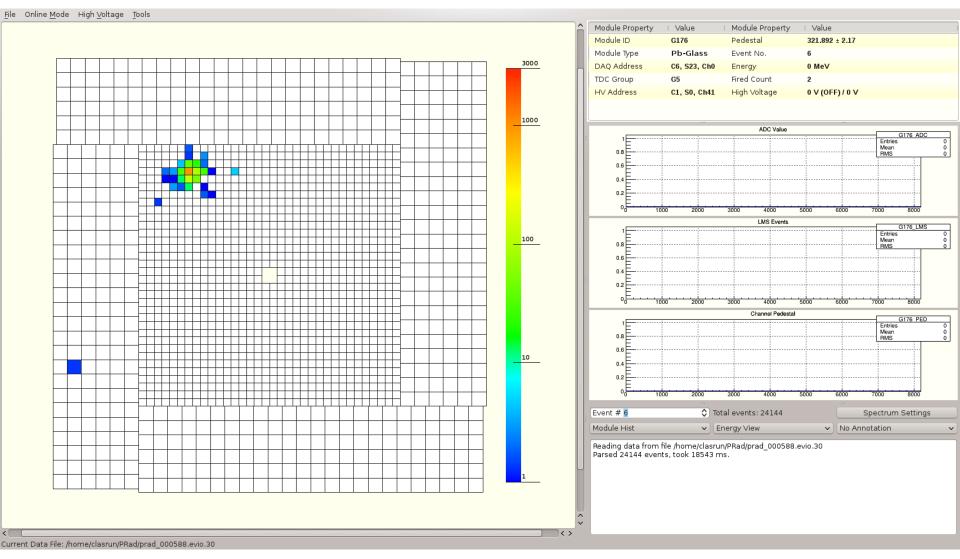


add one turbo as backing pump;

Target group

- ✓ add one more roots blower;
- ✓ ran with H2 gas at 15 K
- ✓ Differential pressure of 1:1000 has been reached

HyCal Checkout and Gain Equalizing (single-position events)



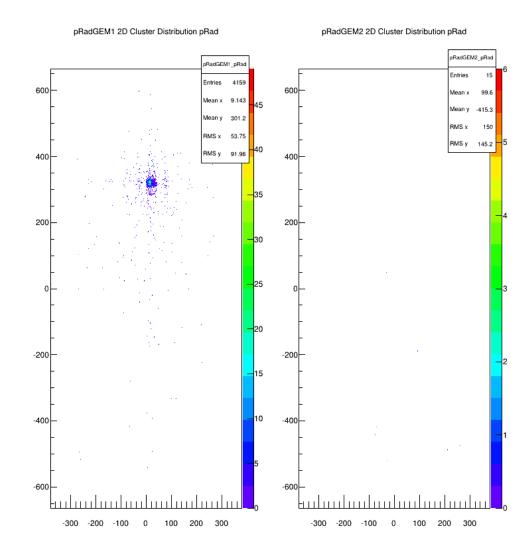
GEM Detectors

- ✓ Induced el-magnetic noise reduced to a tolerable level;
- ✓ GEM DAQ was incorporated in the Hall B DAQ;
- ✓ DAQ needs some more tune-up work;
- ✓ Took some initial data with photon beam.

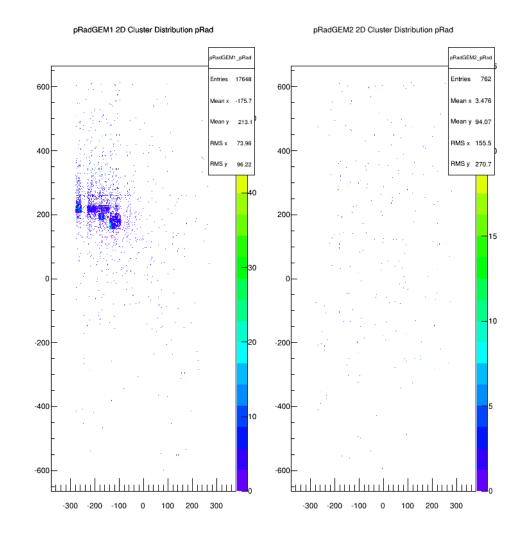


GEM Detectors (single-position events)

- ✓ Induced el-magnetic noise reduced to a tolerable level;
- GEM DAQ was incorporated in Hall B DAQ platform;
- DAQ still needs some more tune-up work;
- GEM was included in the Checkout/ Equalizing procedure with beam.



GEM Detectors (multi-position events)



The End

Vacuum Tank

- Installed in the beam line (Wednesday);
- ✓ Pumps are installed, 10⁻⁵ level vacuum is established (Thursday);
- Connected to the target chamber (Friday);
- ✓ Target + Tank pumping started on Sunday, vacuum level: 10⁻⁵ torr

Vacuum tank is ready for the experiment.

