# Status report (User report)

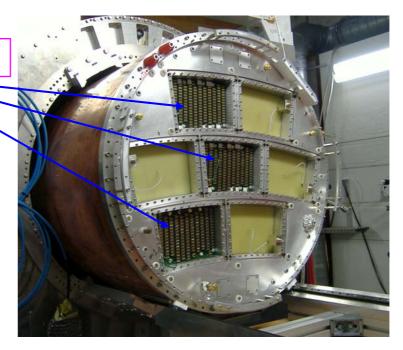
Kinki University
Yukihiro Kato
LC-TPC Asia group

### Test beam at DESY

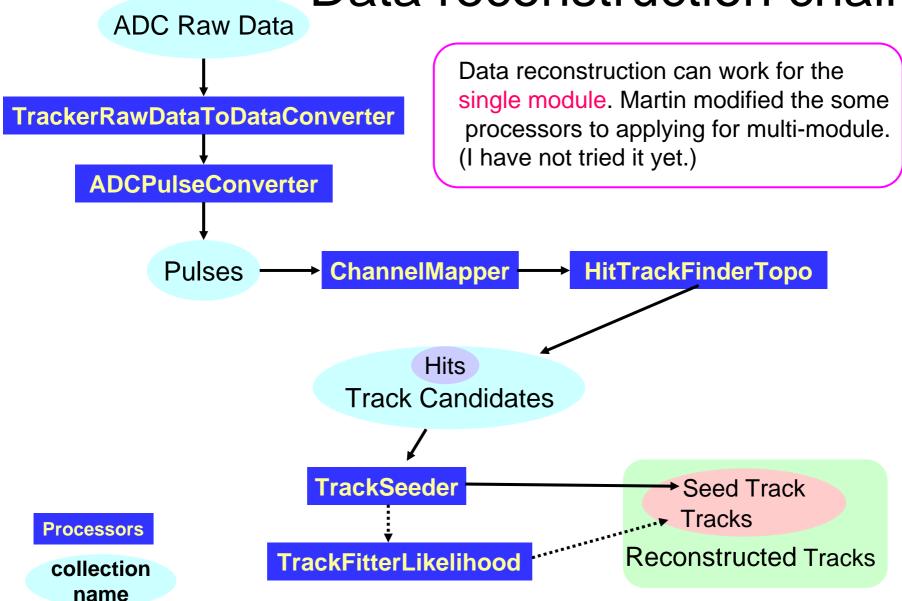
- LC-TPC Asia group has been taking the test beam data of GEM-TPC.
- We use MarlinTPC for the data analysis

3 GEM readout modules

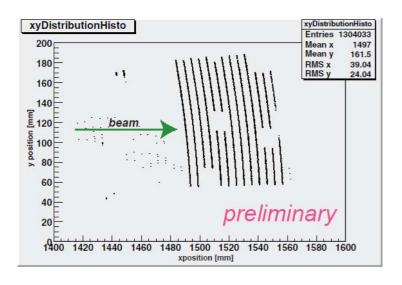
Altro2lcio program (made by Martin) can translate ALTRO raw data to LCIO



#### Data reconstruction chain

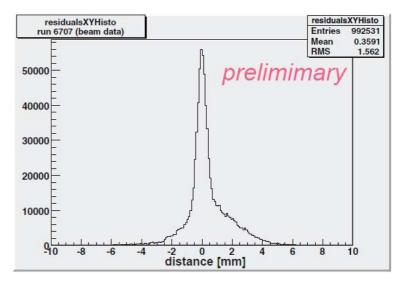


## Preliminary result by MarlinTPC



hit distribution

By HitAndTrackChargeProcessor



residual distribution

By BiasedResidualProcessor

## The plan

- (1) Working now making processor to get the pad response distribution.
- (2) We need to provide...
  - reconstruction with multi-modules and multi-track
  - offline data quality monitor
  - estimate the spatial resolution  $(r-\phi,z)$
  - estimate drift time and T<sub>0</sub>
  - estimate the two-tack separation
  - track fitting with Kalman filter
  - the non-uniform magnetic field

high priority