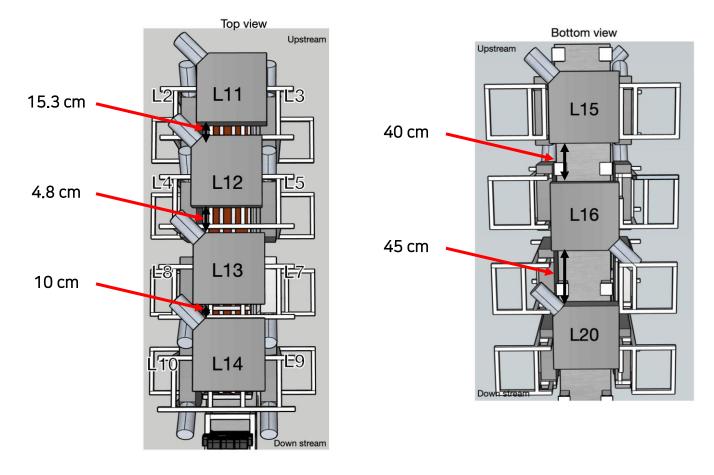
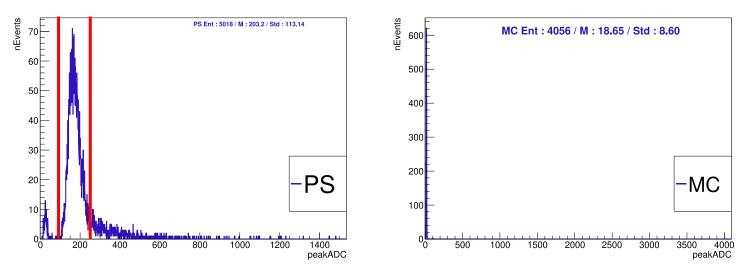
Leakage Counter Calibration Leakage Counter install

- Got leakage counter calibration run (Run# 10503, 10505, 10507, 10509)
- Calibrated with 160 GeV mu+, 5000 evts per position. (Top, Bottom, Left, Right)
- Measured distance between leakage counters, and the height position of LCs.

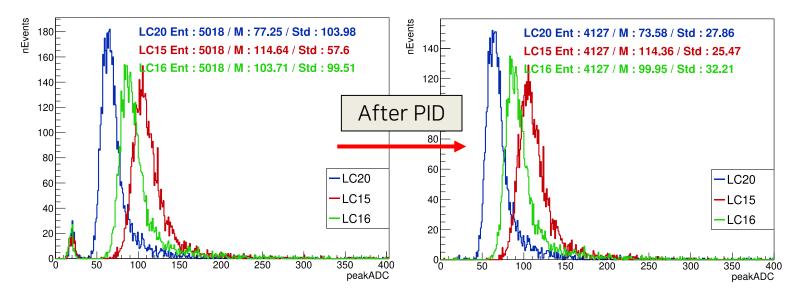


Leakage Counter Calibration Particle Identification



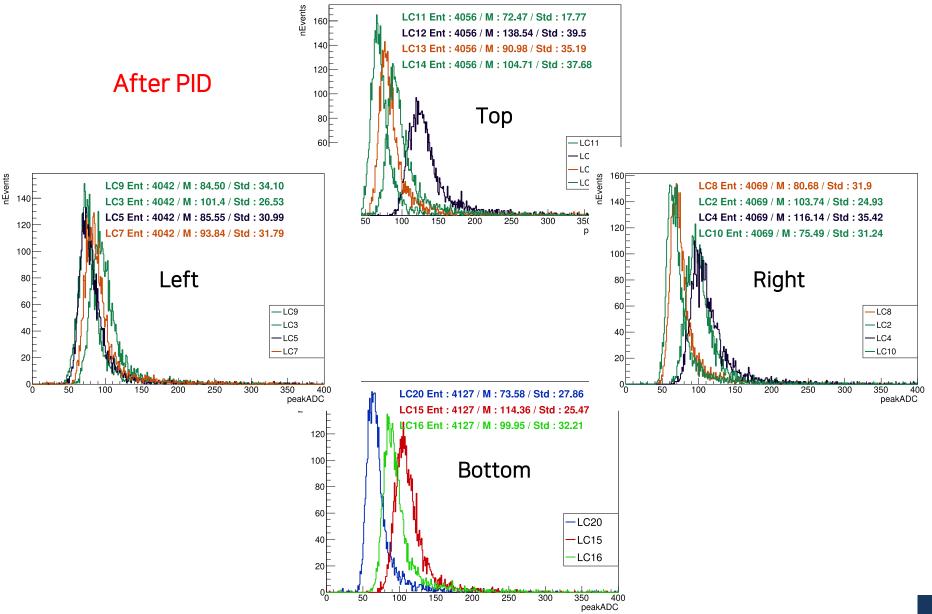
- For particle identification, applied cut for PS, 100 < (Peak ADC) < 250

- No MC signal was found, due to beam incline.



Leakage Counter Calibration

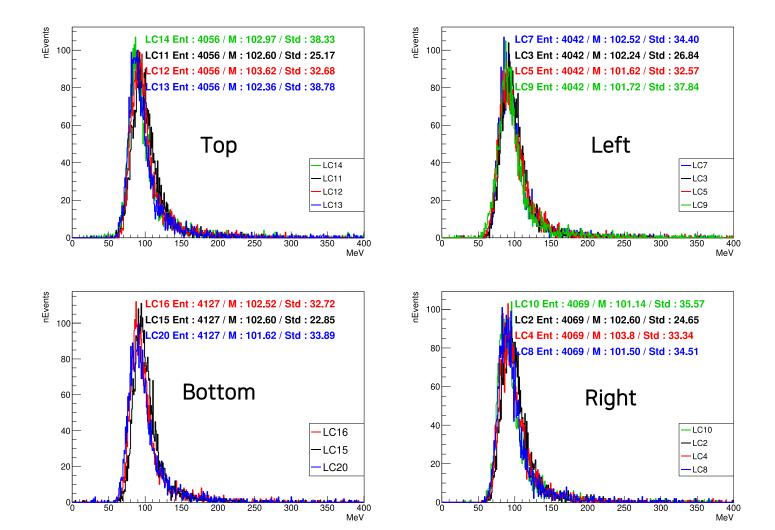
Particle Identification



Leakage Counter Calibration Calibration

- Polystyrene minimum ionization : 2.052 MeV / cm (pdg)

- Total energy deposit on single LC : 2.052 MeV / cm * 50 cm = 102.6 MeV



Leakage Counter Calibration Calibration

- Calibration constant & scale factor for integrated ADC results.

LC #	Calibration Constant (MeV/intADC)
LC2	0.017611980
LC3	0.020157963
LC4	0.018407649
LC5	0.024310031
LC7	0.019876017
LC8	0.023748571
LC9	0.021884685

LC #	Calibration Constant (MeV/intADC)
LC10	0.024175591
LC11	0.025516295
LC12	0.013107868
LC13	0.022355815
LC14	0.017476323
LC15	0.016684636
LC16	0.018222247
LC20	0.023386108

- Applied integration range : 400 ~ 600 bin

- Scale Factor : 2.50978817

Leakage Counter Calibration Pion event signal

MeV

- Run# 10631, 100 GeV hadrons on M5T1 center, 50k events, integrated ADC result

