

SNU-HEP Lab Meeting Presentation

Date: 2018-11-26

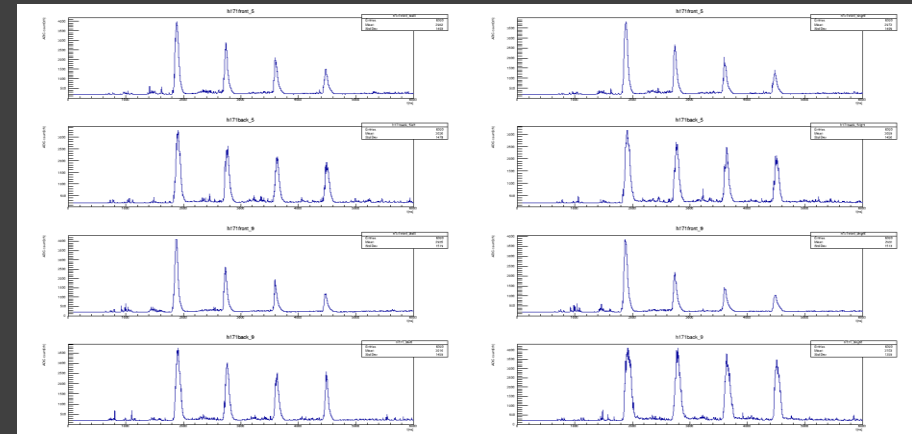
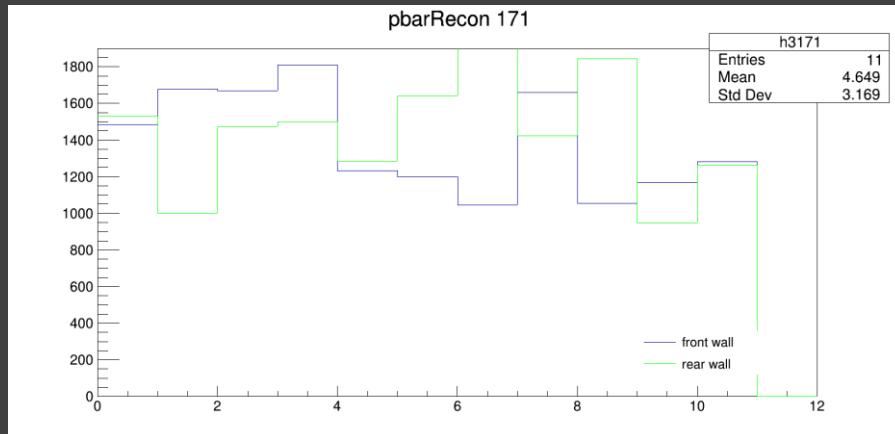
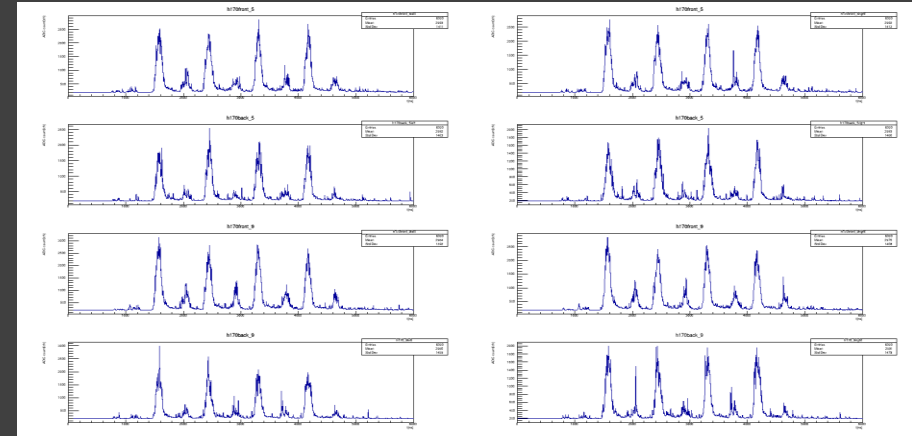
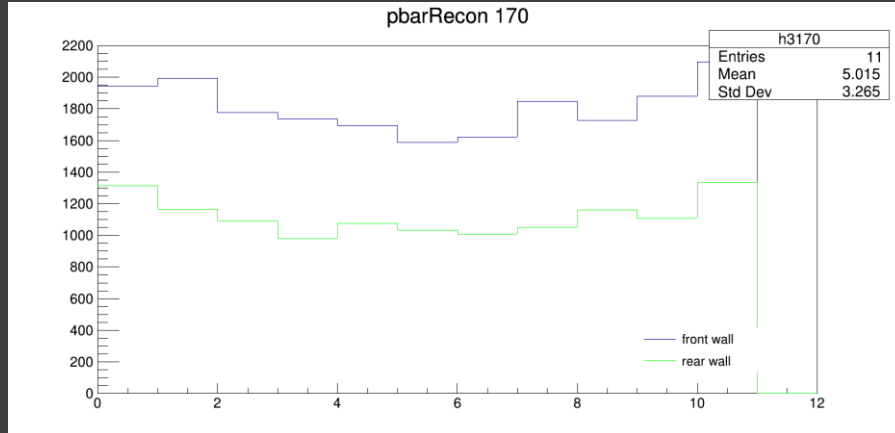
JaeJin Choi

Pbar beam data

Data Num	date	eventNum	Data length
665,666	8/10	27(7us)	8us
763	10/12	53	16us
772	10/19	118	16us
777	10/30	57	16us
785	11/07	37	16us
787	11/09	216	32us

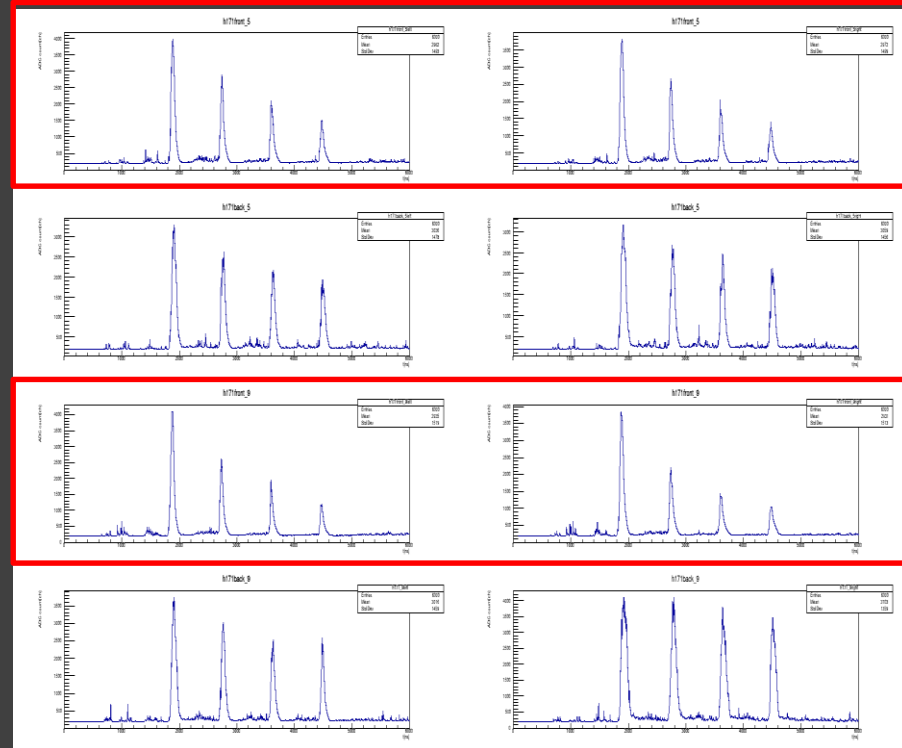
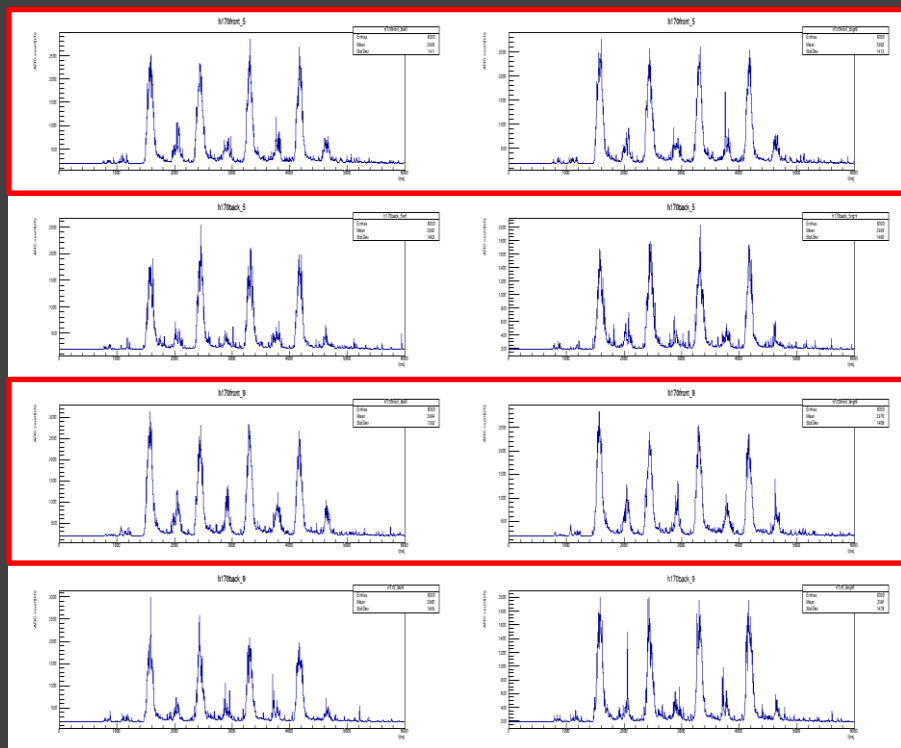
Geometry
changed(10
/18)

Event analysis(data 787: event 171&172)



- 171: a few hits pions 8 bunches(from ELOG , antion)
- 172: 4 bunches of pbar shots. Many prions(pbar mcp still IN)

Event analysis(data 787: event 171&172)



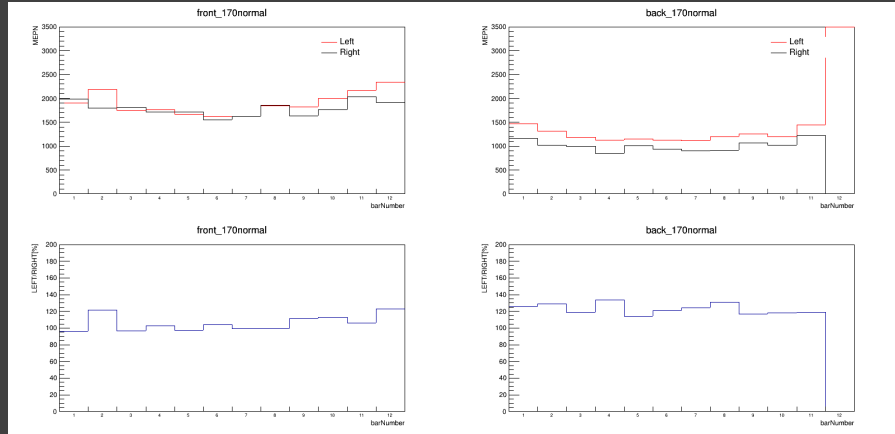
171: similar to front and back

: front wall

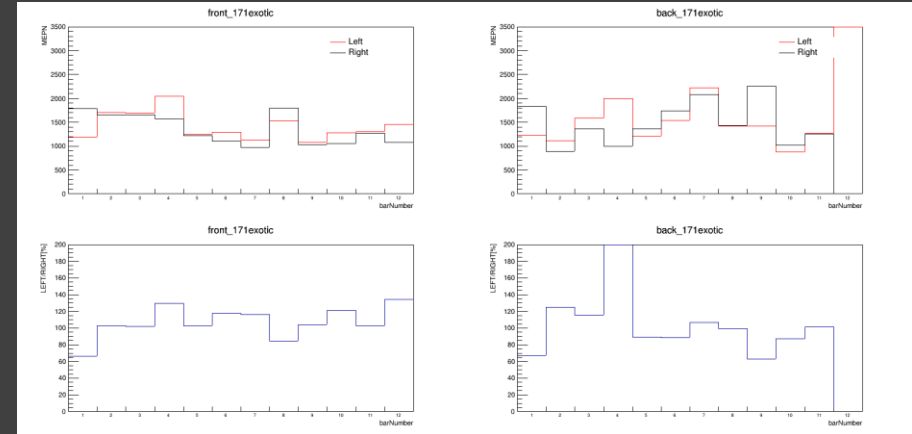
- 171: a few hits pions 8 bunches(from ELOG , antion)
- 172: 4 bunches of pbar shots. Many prions(pbar mcp still IN)

172: different between front and back(more attenuated in front)

Event analysis(data 787: event 171&172)



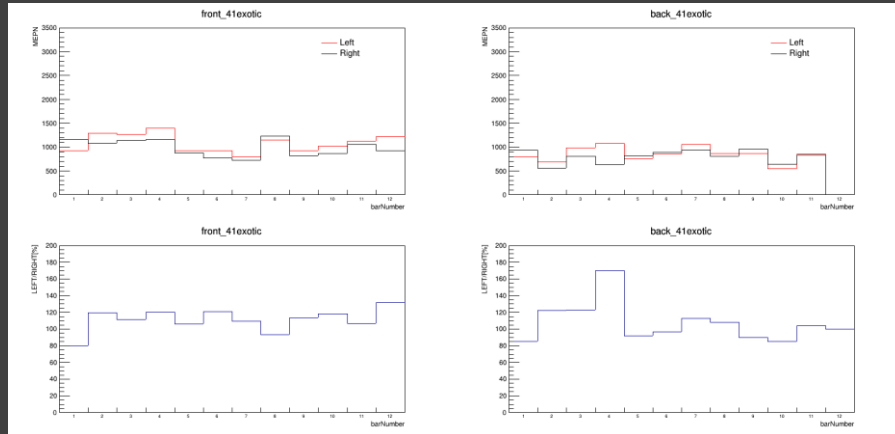
171: normal event



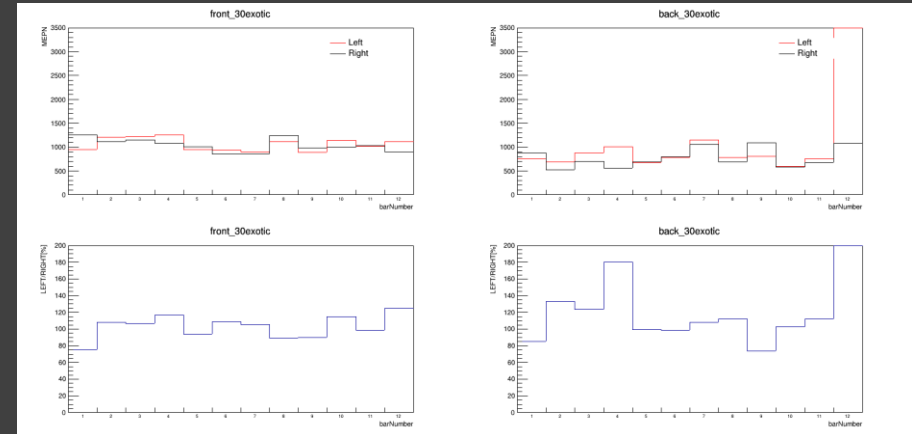
172: exotic event

- Normal events : about 67
- Exotic events : about 74
- No signal : about 75

Exotic event analysis



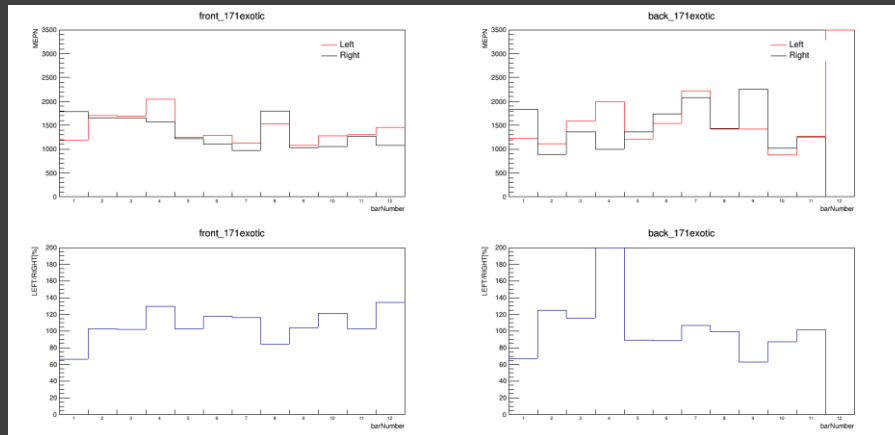
DataNum: 763(eventNum: 42)



DataNum: 785(eventNum: 31)

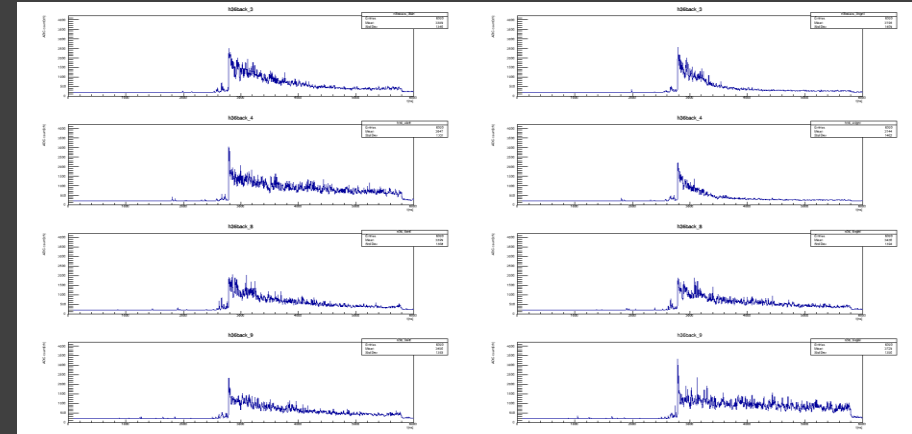
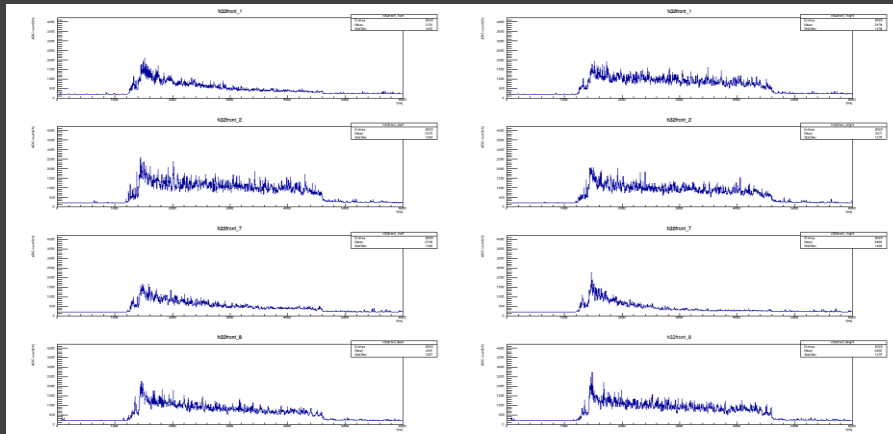
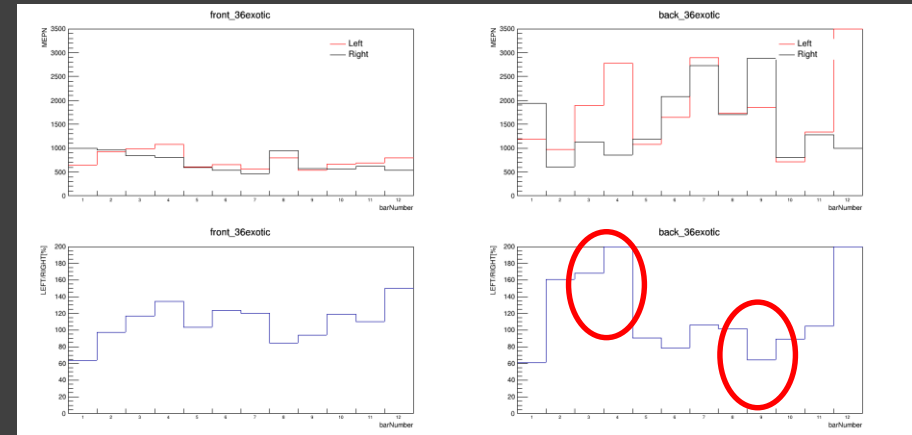
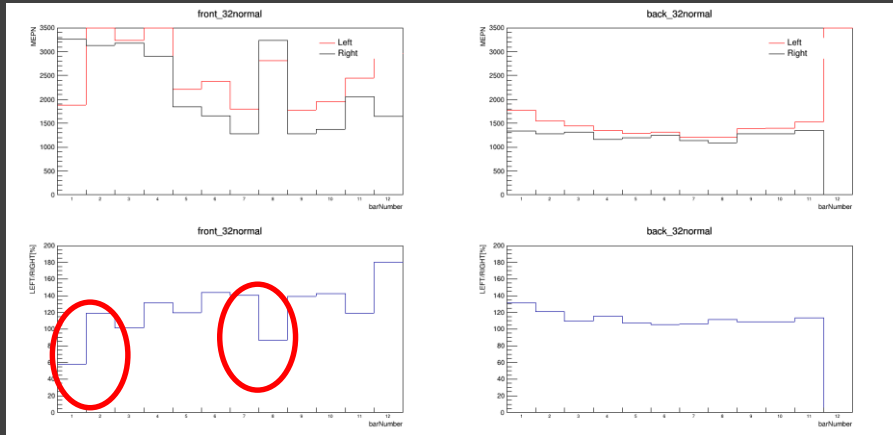
- Left/Right is independent of geometry

 PMT issue



DataNum: 787(eventNum: 172)

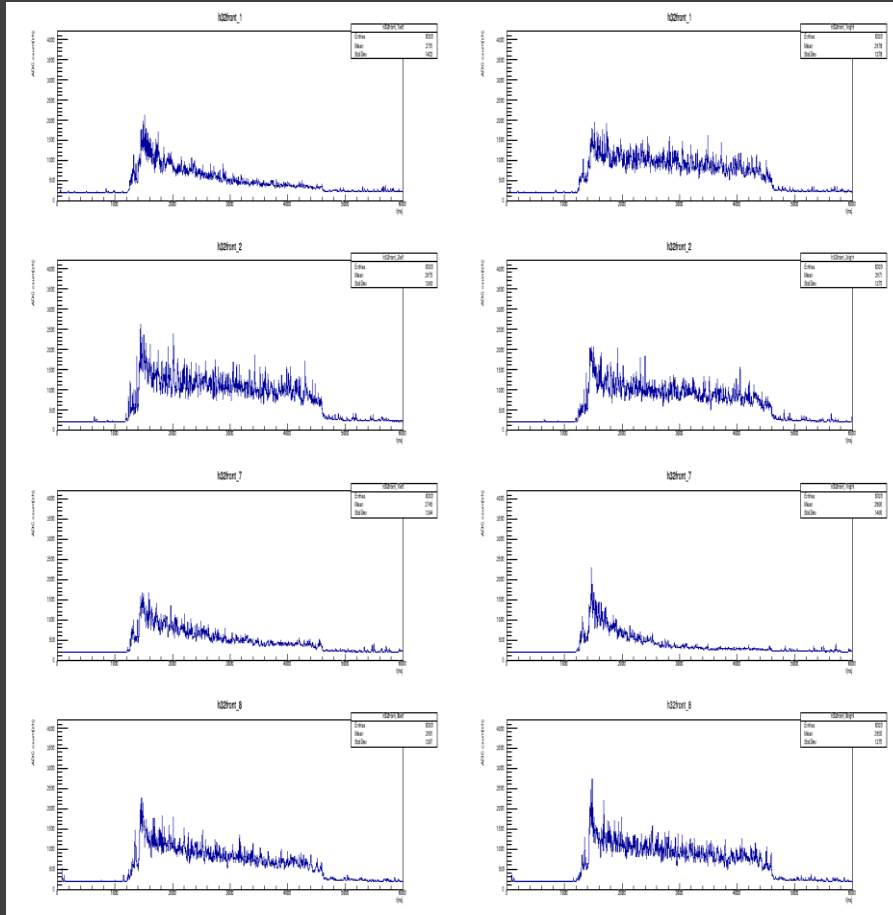
Exotic event analysis



DataNum: 787(eventNum: 33)

DataNum: 785(eventNum: 37)

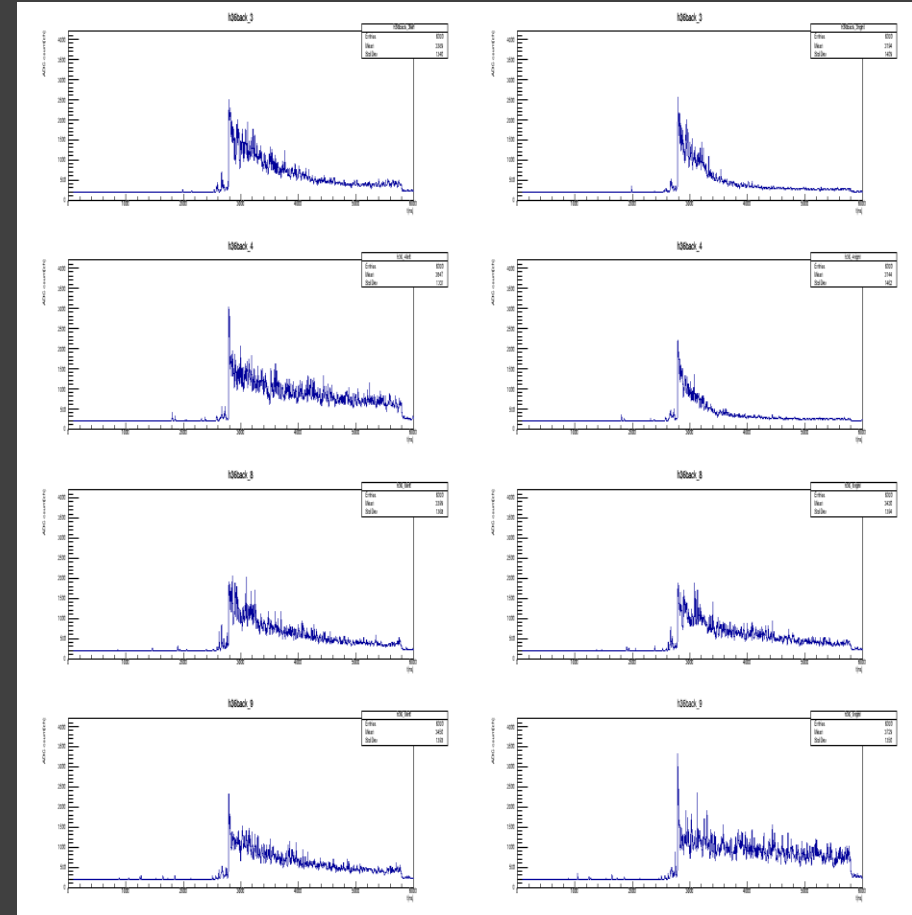
Exotic event analysis



DataNum: 787(eventNum: 33)

Front wall

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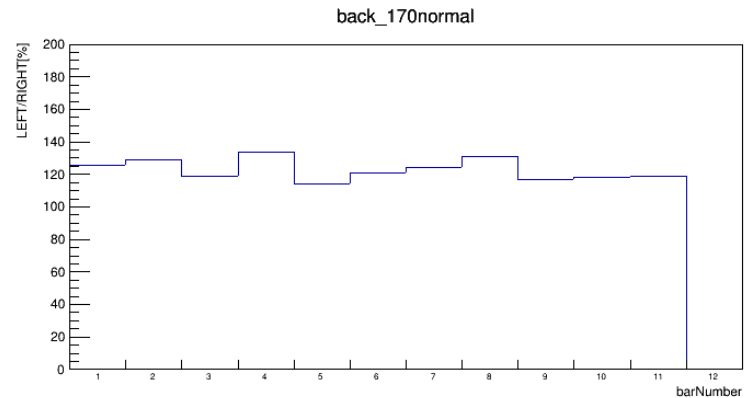
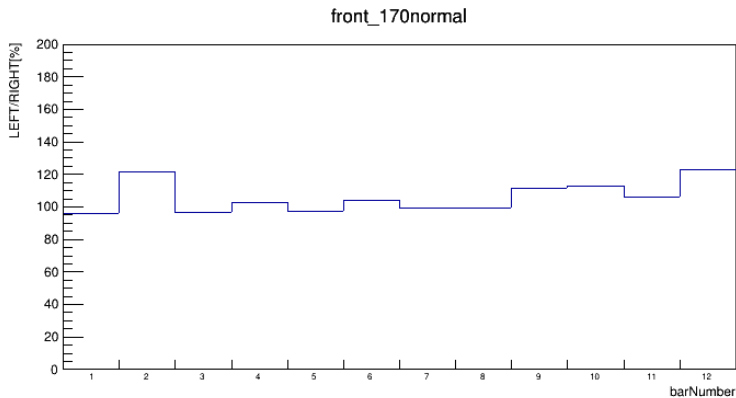
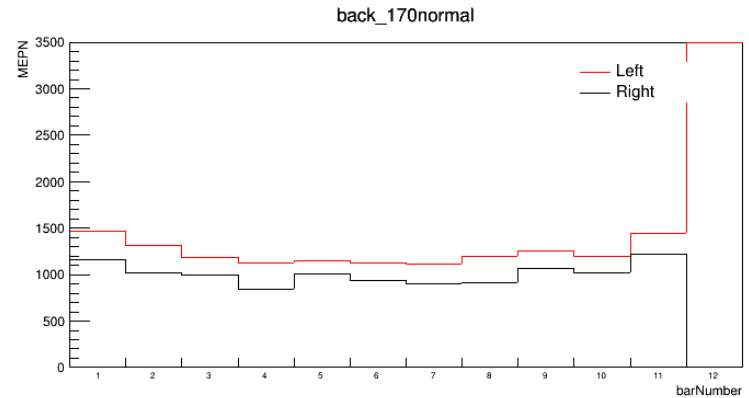
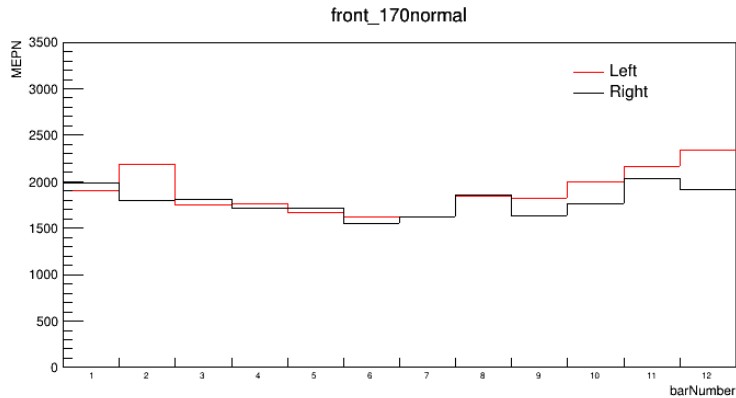


DataNum: 785(eventNum: 37)

Back wall

Weekly meeting

Normal event analysis



DataNum: 787(eventNum: 171)

- Why Left > Right in back wall? (magnetic field? but positron trap turned off at 787)

To do list

- **PBAR Analysis**
 - Analysis tale events
 - PMT analysis