

# ***HF PMT Hits Analysis***

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# *Introduction*

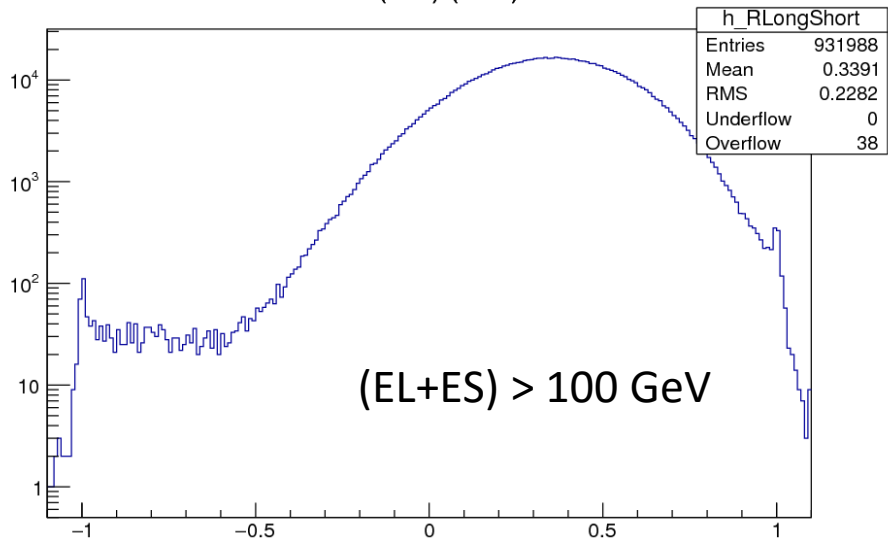
- We have analyzed collision data with full Tesla at 13 TeV (Run 2) (Run : 254790).
- We used CMSSW\_7\_4\_2 and Global Tag is 74X\_dataRun2\_Express\_v0
- Using data set: /ExpressPhysics/Run2015C-Express-v1/FEVT

L1\_SingleJet200

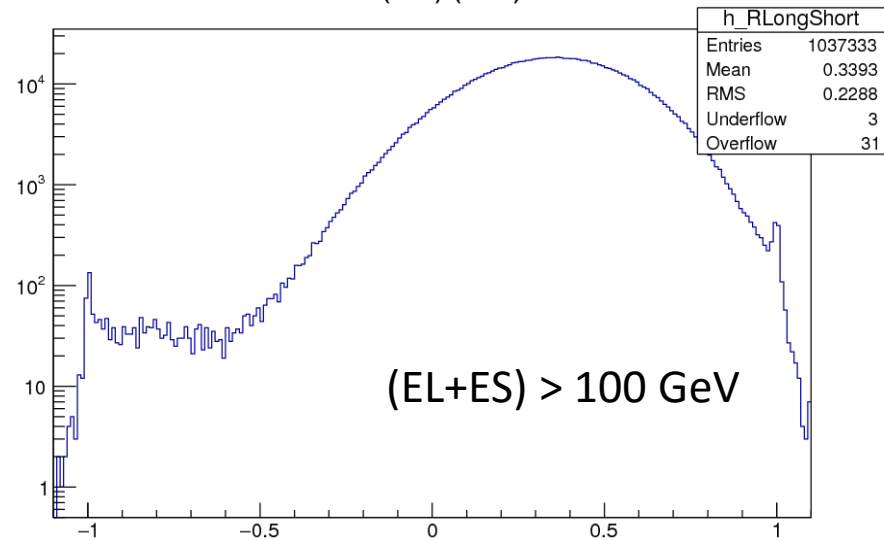
RUN: 254790

L1\_ETM70

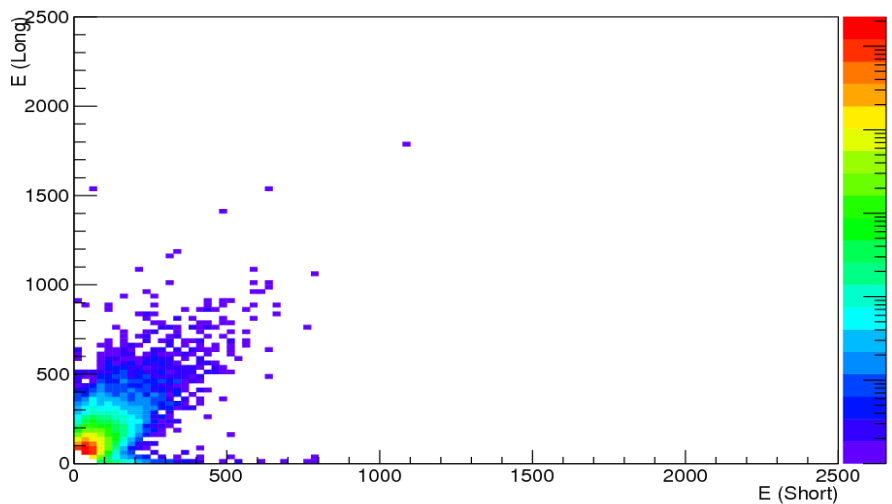
$$R=(L-S)/(L+S)$$



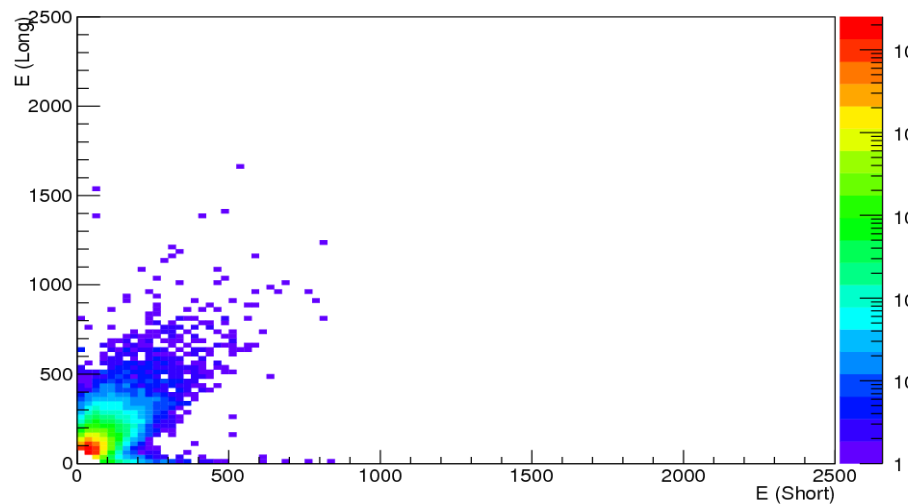
$$R=(L-S)/(L+S)$$



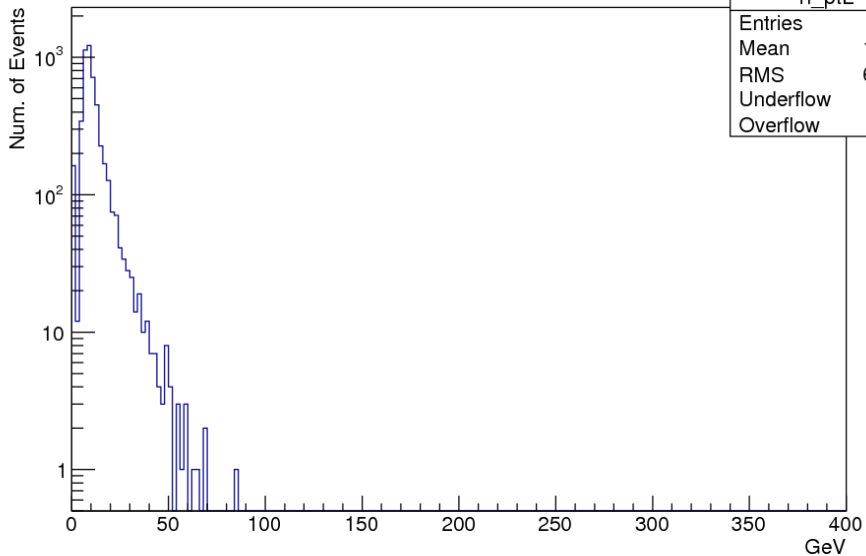
E(long) vs E(short)



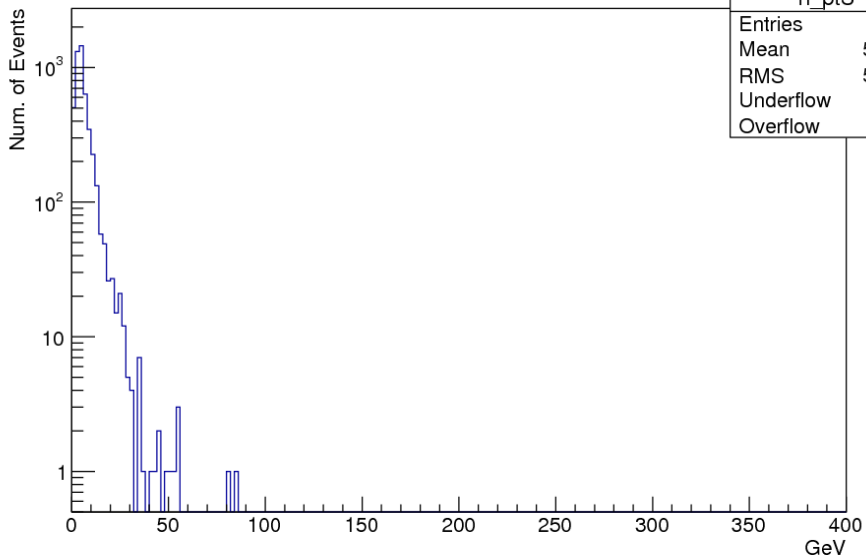
E(long) vs E(short)



pt (long)



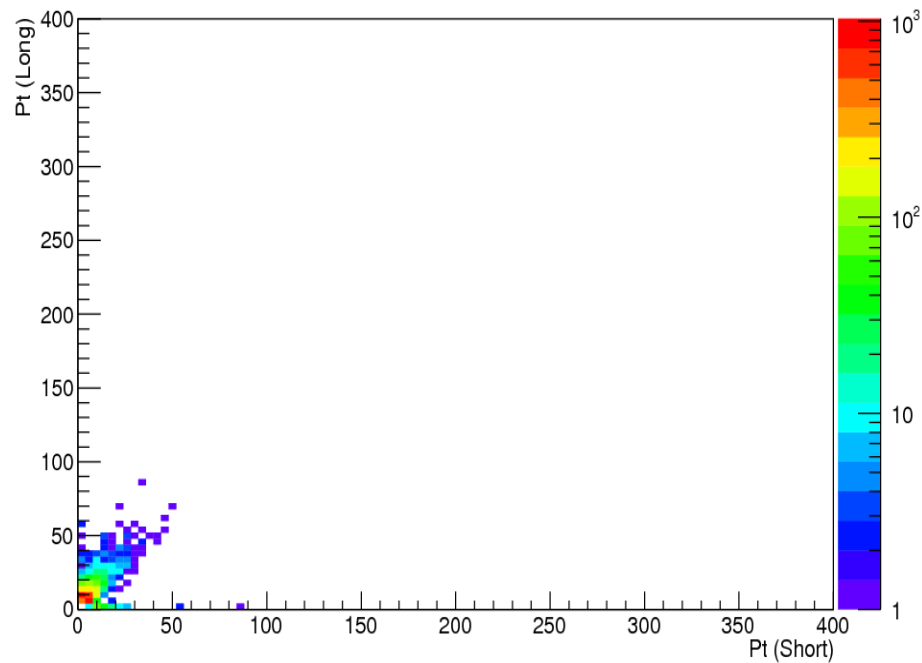
pt (short)



RUN: 254790

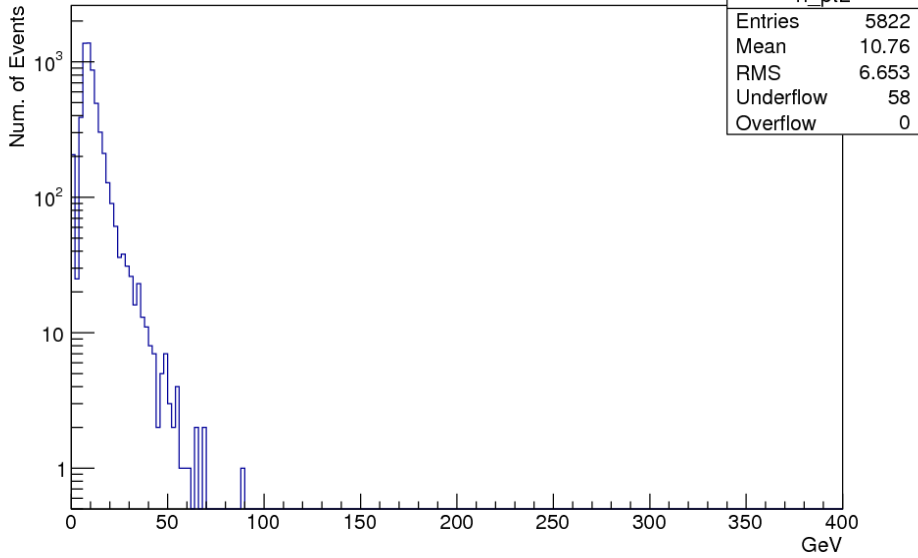
L1\_SingleJet200

Pt(long) vs Pt(short)

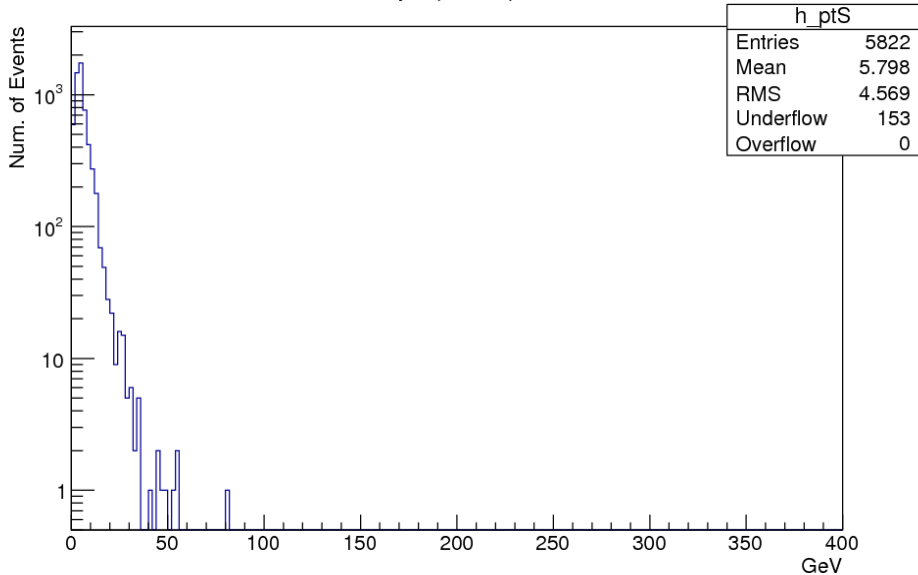


*Pt > 70 GeV not appear a lot*

pt (long)



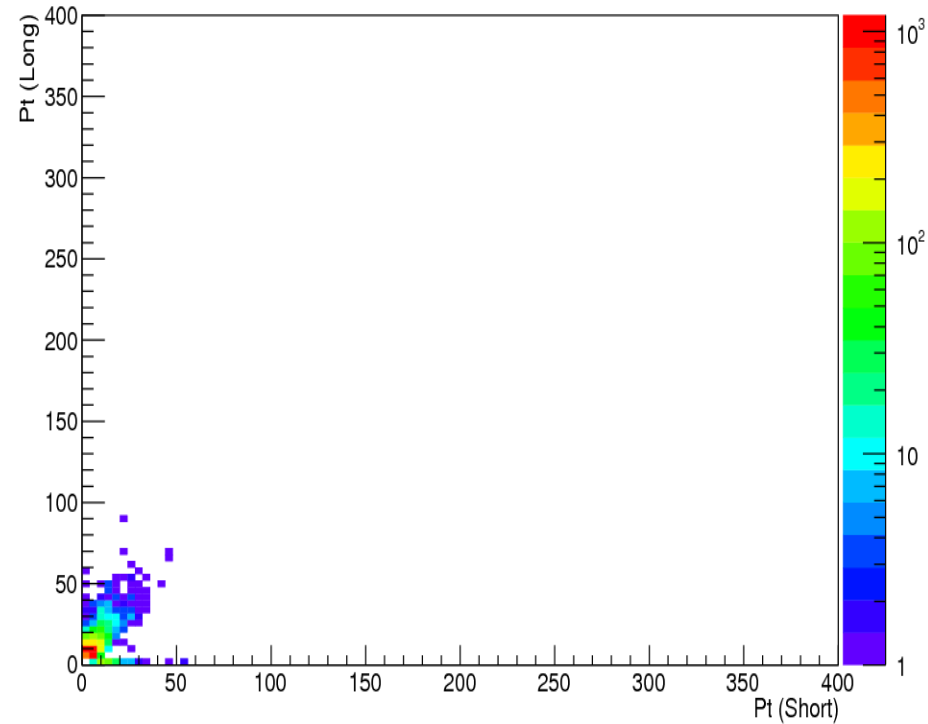
pt (short)



RUN: 254790

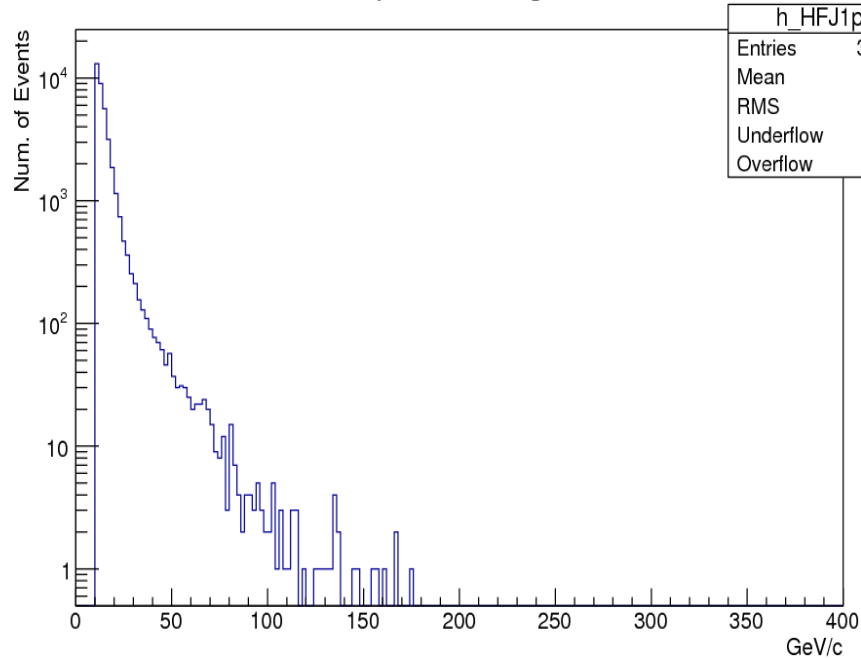
L1\_ETM70

Pt(long) vs Pt(short)

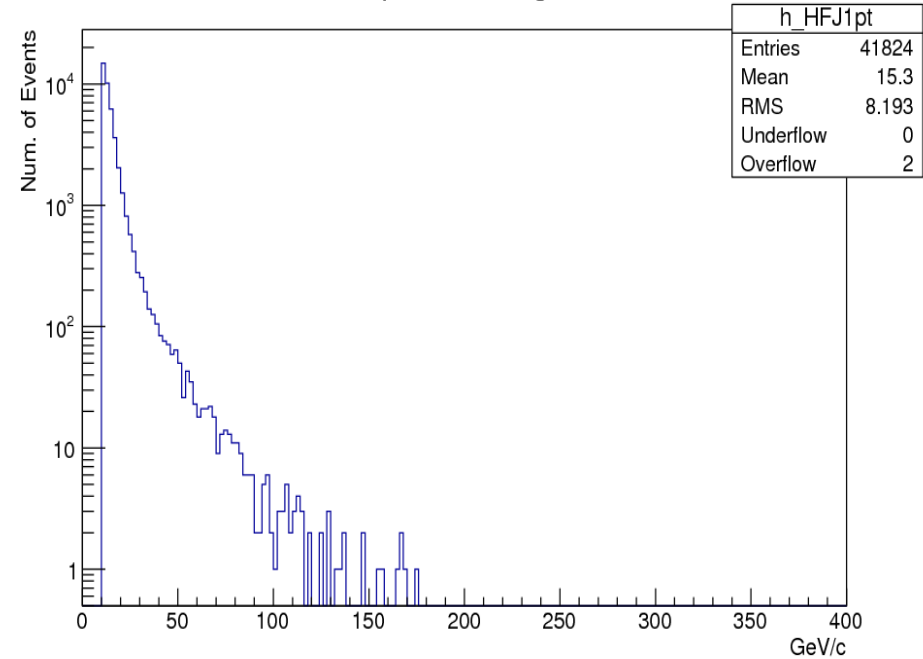


***Pt > 70 GeV not appear a lot***

J1 pt in HF Region



J1 pt in HF Region



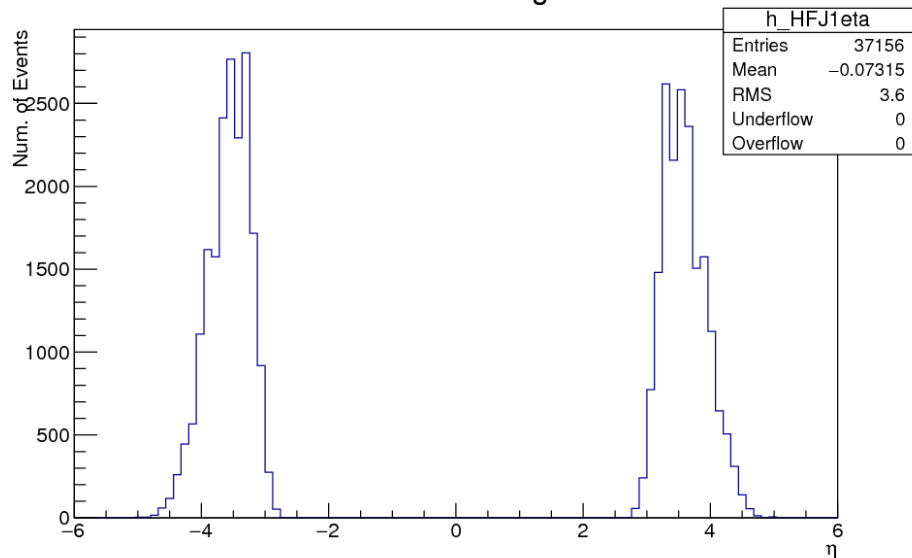
***Leading Jet Pt for HF***

L1\_SingleJet200

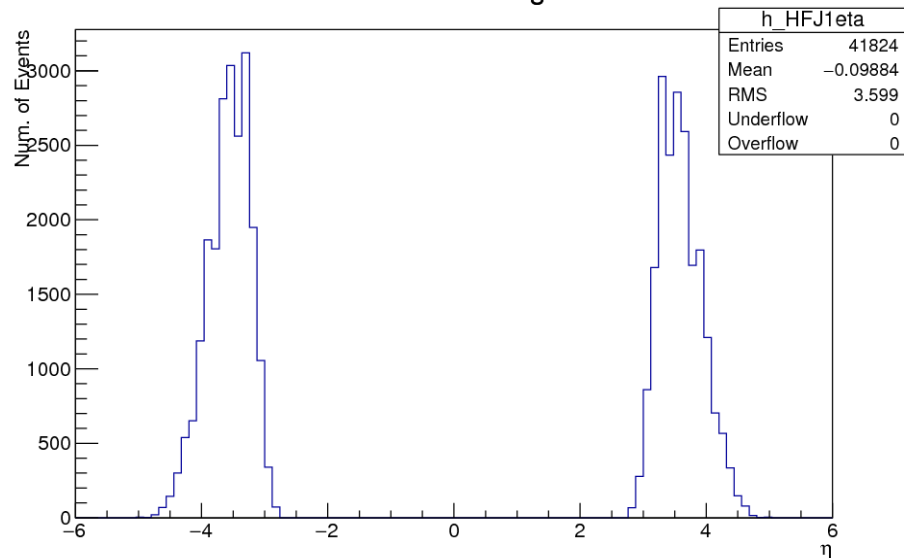
RUN: 254790

L1\_ETM70

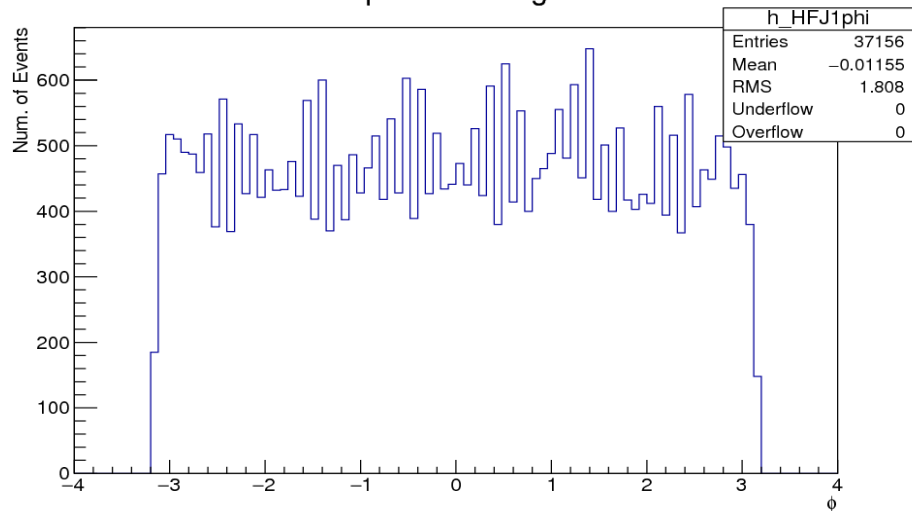
J1 eta in HF Region



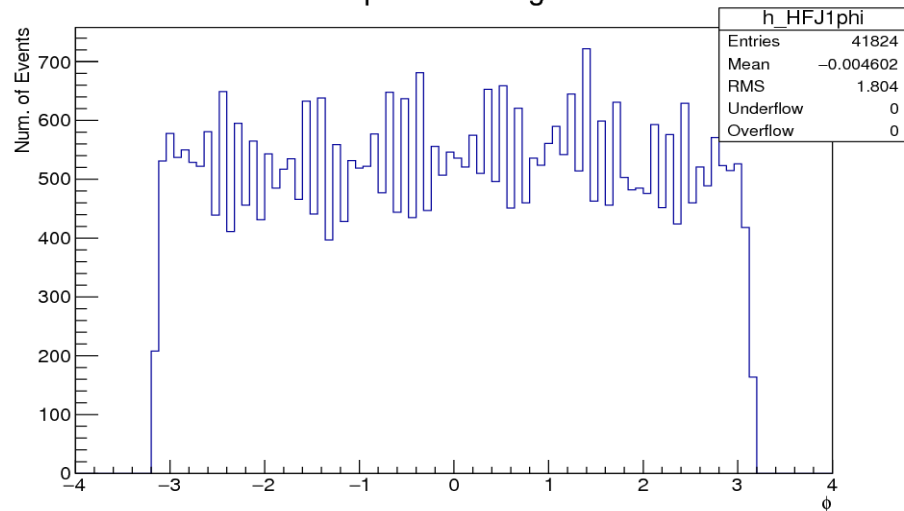
J1 eta in HF Region



J1 phi in HF Region



J1 phi in HF Region



# *Conclusion*

- ❖ Events which have  $p_t > 70$  GeV/c, are not appear a lot
- ❖ You can find results of runs (254790 and 254833) for MET an JetHT data sets in detail as pdf on evernote
- ❖ We will continue analysis for new runs.