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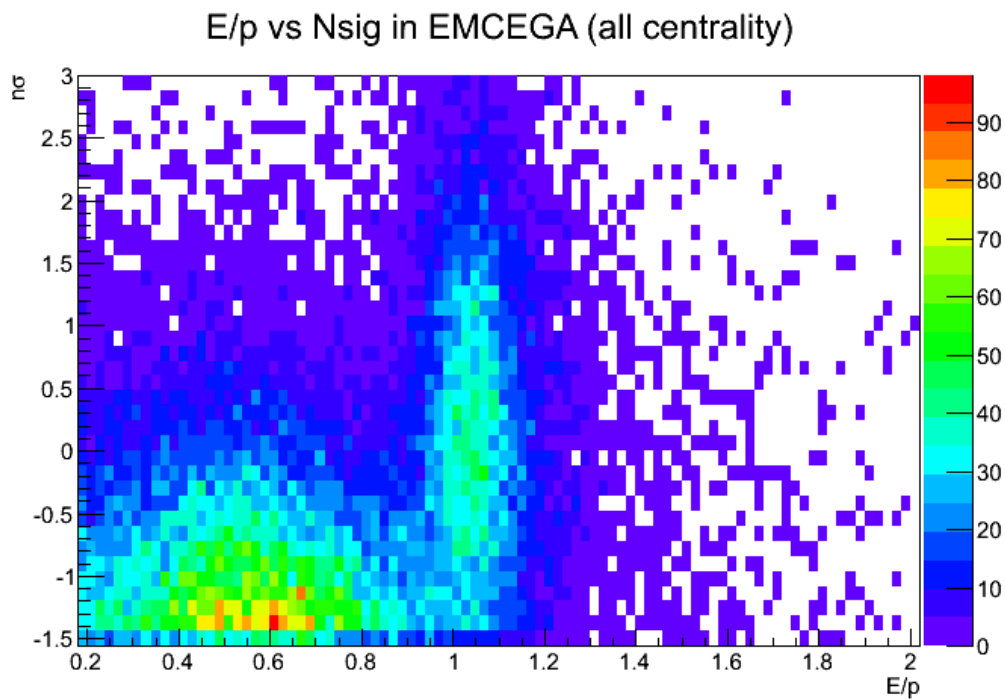
# Outlook

- EMCal trigger data (EMCEGA) with Lego train
- 55 runs are satisfied good quality
- 3 runs were failed and 30% jobs are failed
- 2M events were used for this analysis

# Results

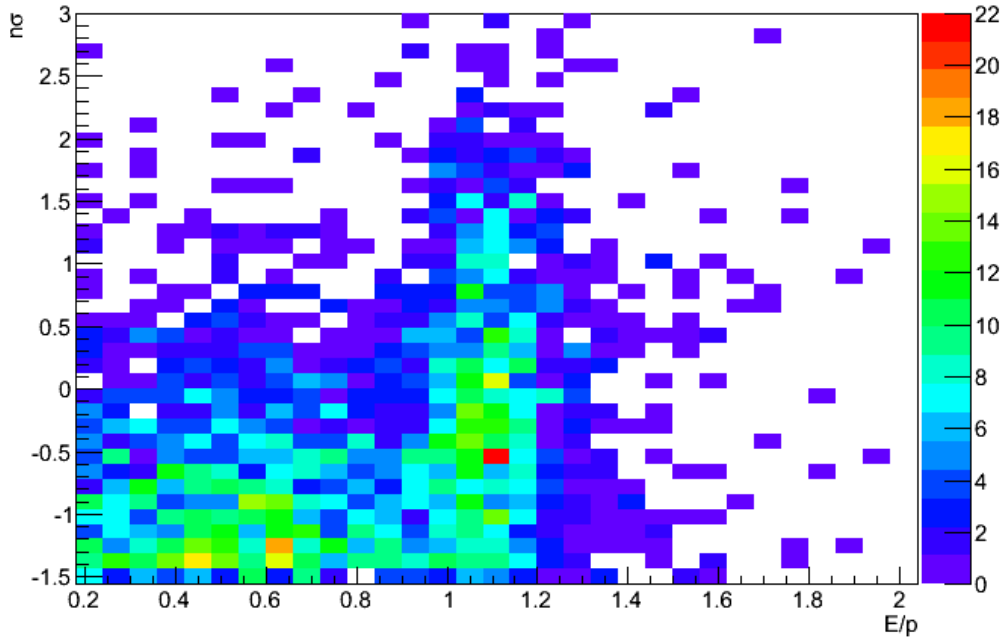
## Check the performance of electron identification with TPC and EMCal

- looked at TPC nSigma and E/p to check the performance
- both detector doesn't request Tender (not need)
- required  $p_T > 5 \text{ GeV}/c$
- All Centrality



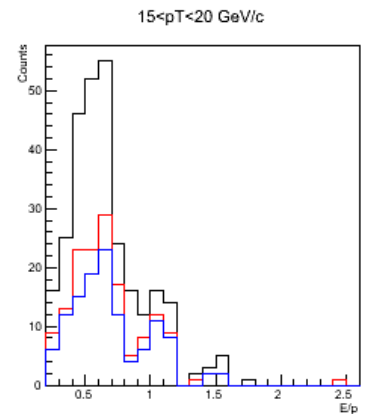
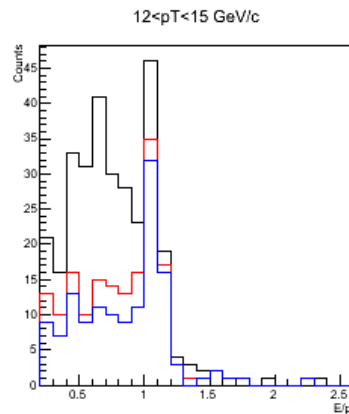
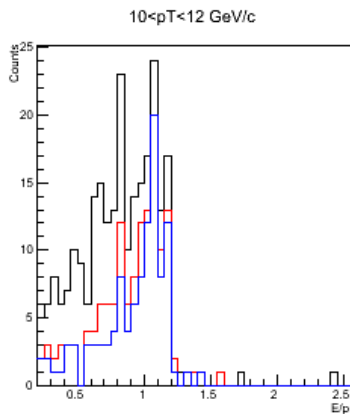
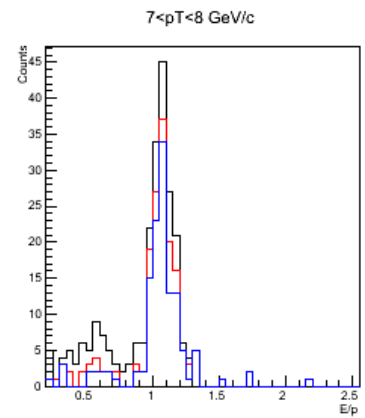
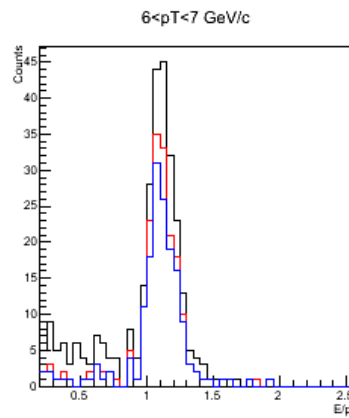
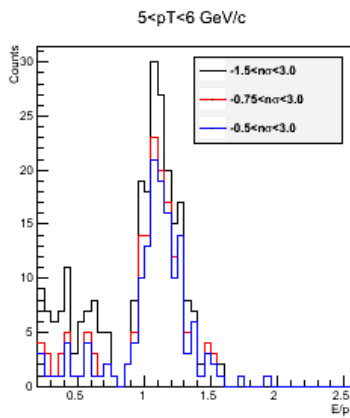
- Centrality 0-5 %

### E/p vs Nsig in EMCEGA (Most Cent)



### E/p distribution

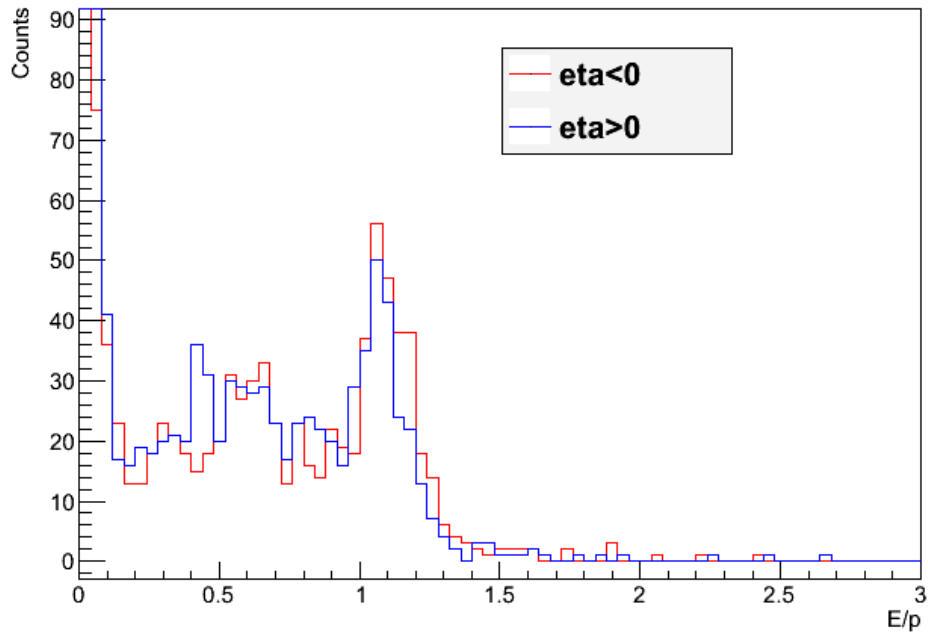
- Centrality 0-5 %
- requested  $-1.5 > n\text{Sigma}$
- below  $pT < 10 \text{ GeV}/c$ , the cut is fine
- $pT > 10 \text{ GeV}/c$ , need more tighter cut to get pure electron sample



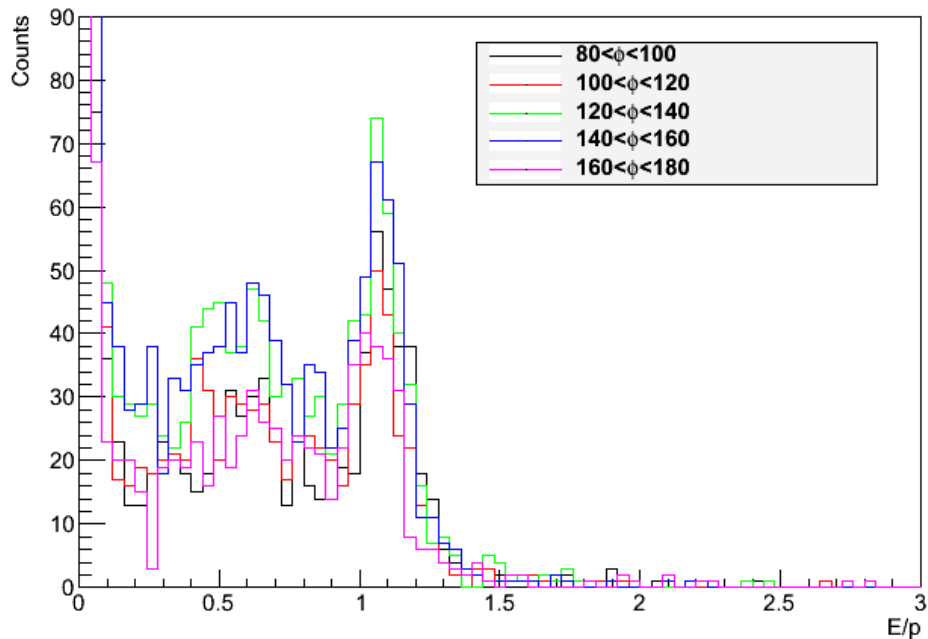
## E/p (eta and phi dependence)

- integrated centrality 0 - 10% to increase the statistics

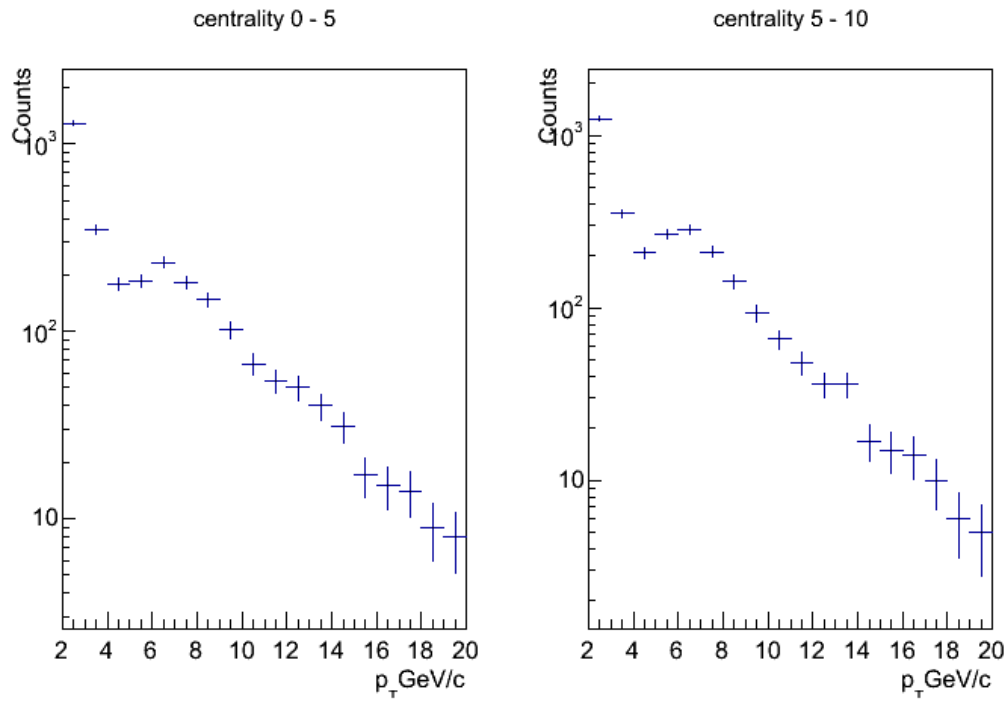
E/p in EMCal trigger (0-10%)



E/p in EMCal trigger (0-10%)



## Raw electron yields in the most central collisions



- required nSigma TPC > -1.5
- not corrected hadron contamination

# presentation at HFE

- <https://twiki.cern.ch/twiki/pub/Main/04102012HFEEWithLEGOTrainForTriggerEventAnalysis/HFE0410ssakai>
- comment ; TPC>120 is too tight. proposed to use around 60 to 70

-- /u/shingo/WRK\_eliza8/2012/04/05/HFE0312

-- ShingoSakai - 11-Apr-2012

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