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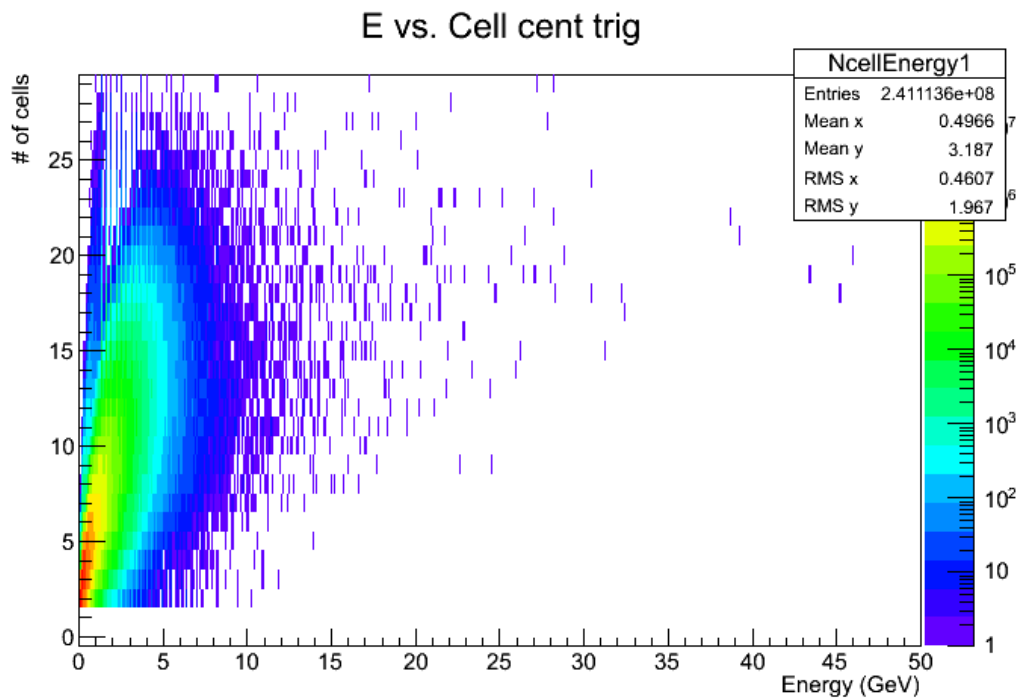
# General

- trigger selection ; central trigger (centrality 0 - 10 %)
- $dE/dx$  cuts in this analysis is 72 - 90 (see  $dE/dx$  vs.  $E/p$ )
- $E/p$  cut ; nSigma base

# Energy vs. Cell I

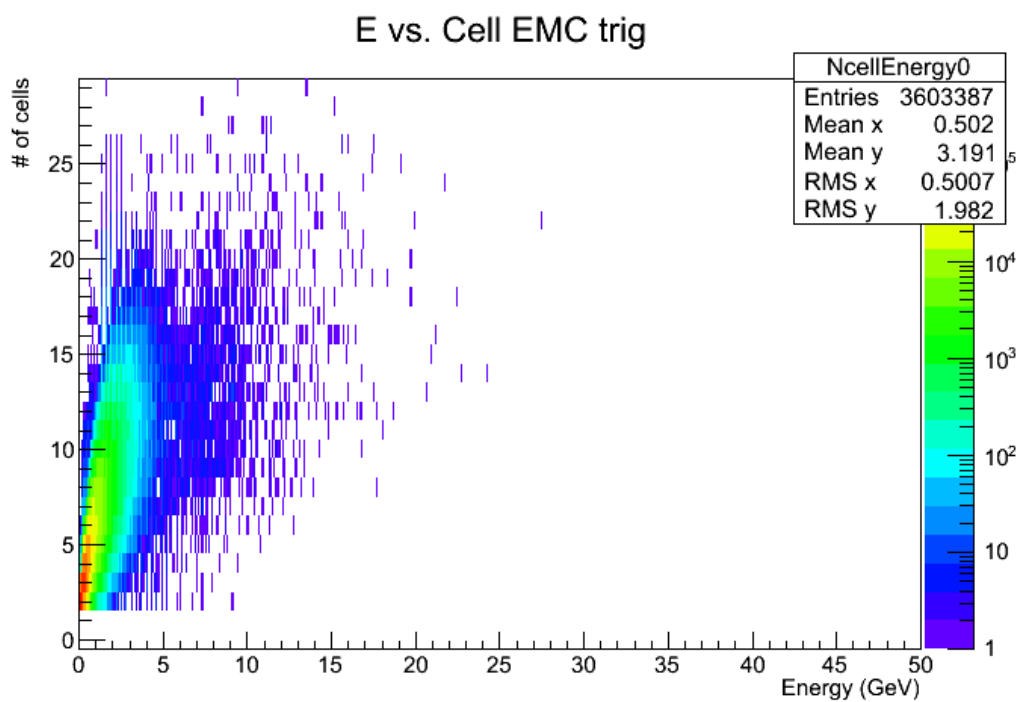
- Checked exotic clusters in the sample

## Central trigger



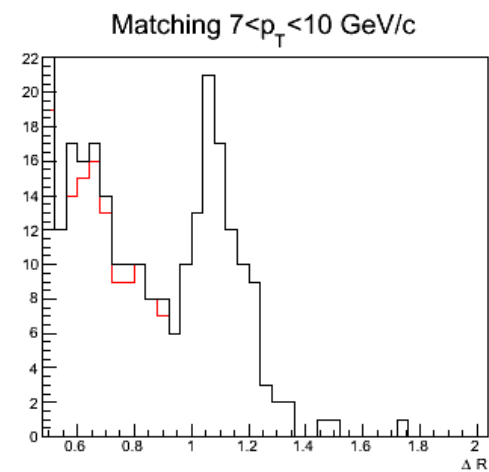
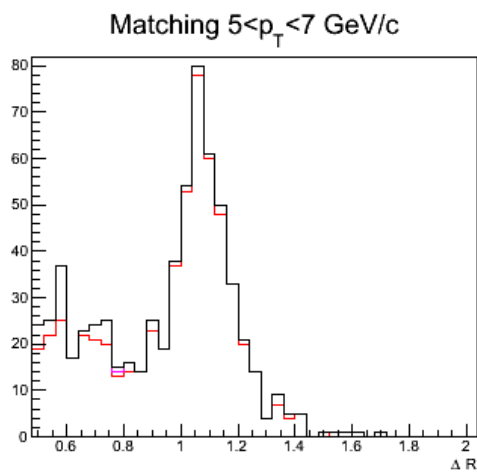
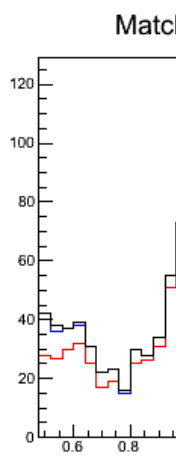
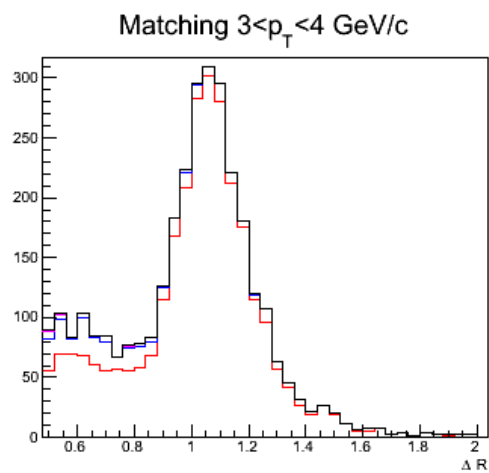
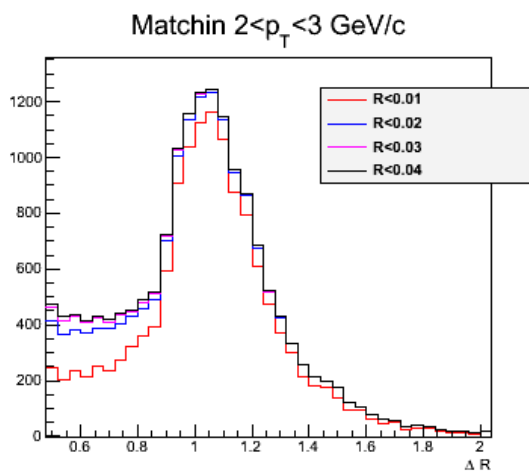
## EMCal (gamma) trigger

- integrated all centrality



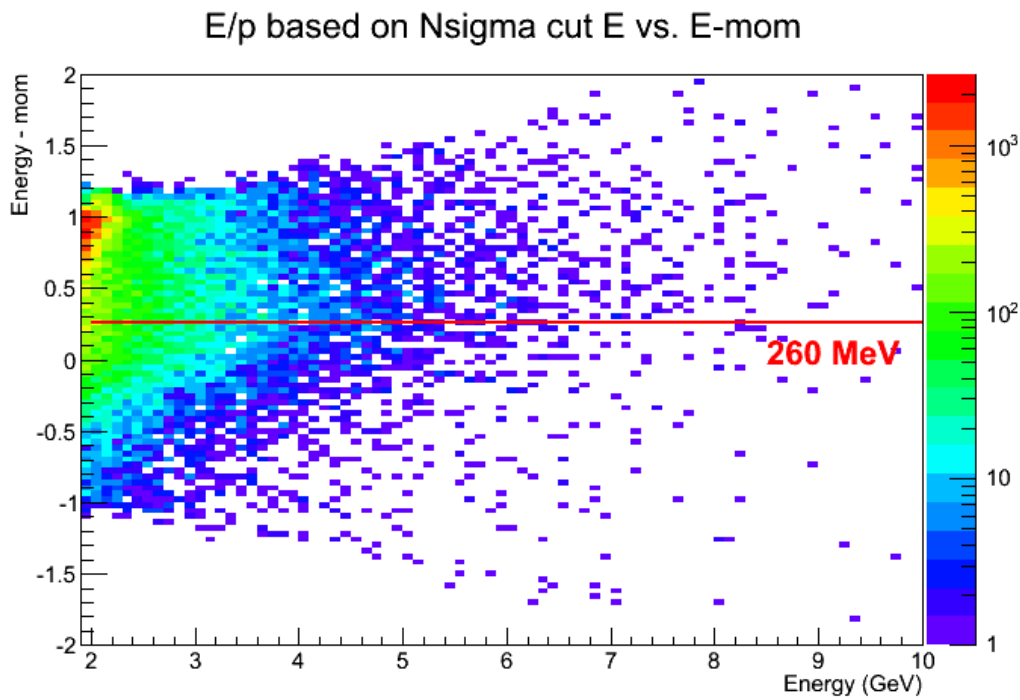
# E/p vs. track matching cut

- E/p for electron candidates (passed dE/dx cut)
- apply cut track matching cuts  $R < 0.01$ ,  $R < 0.02$ ,  $R < 0.03$  &  $R < 0.04$

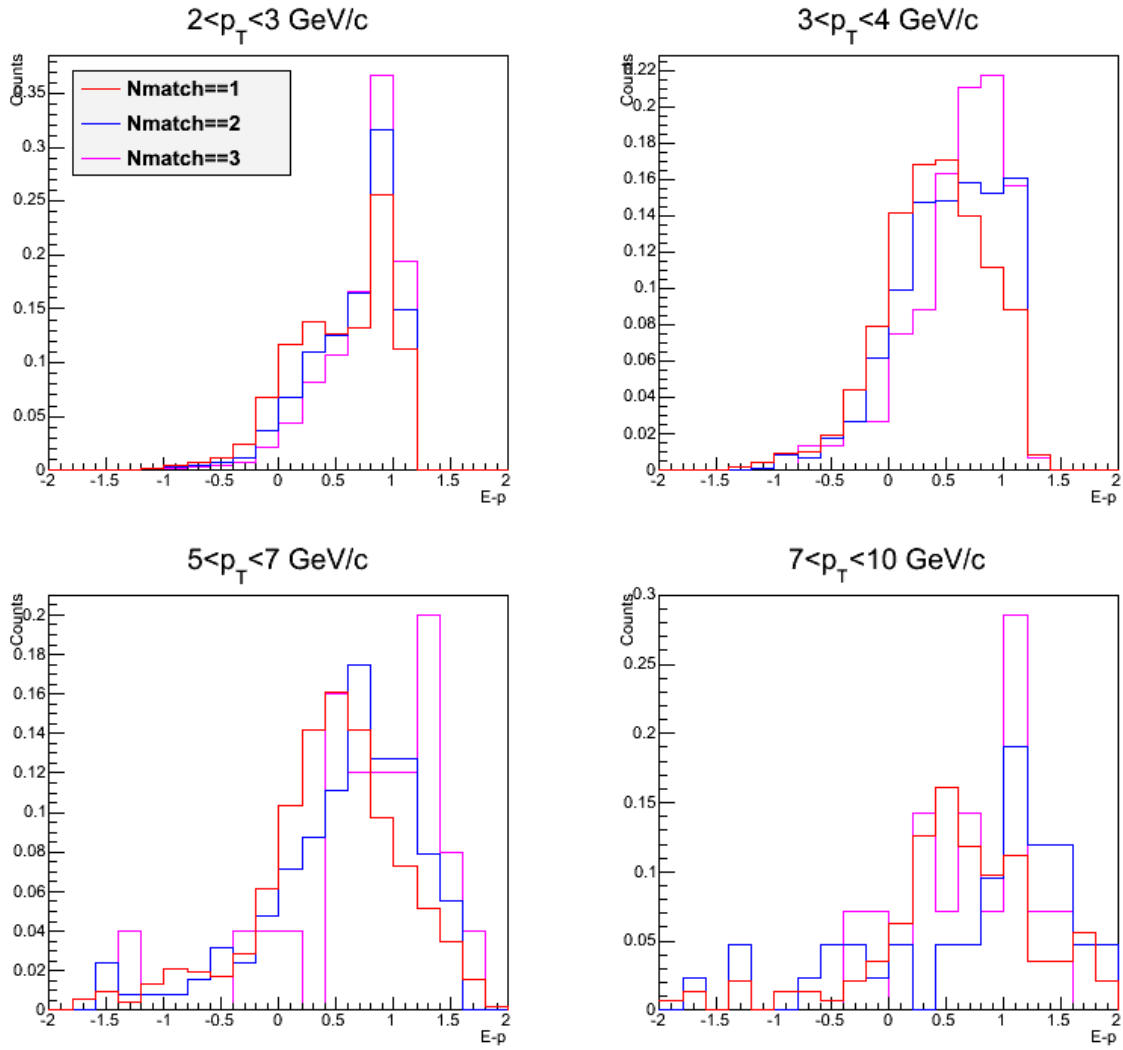


# E- p for electron candidates

## E- p vs. Energy

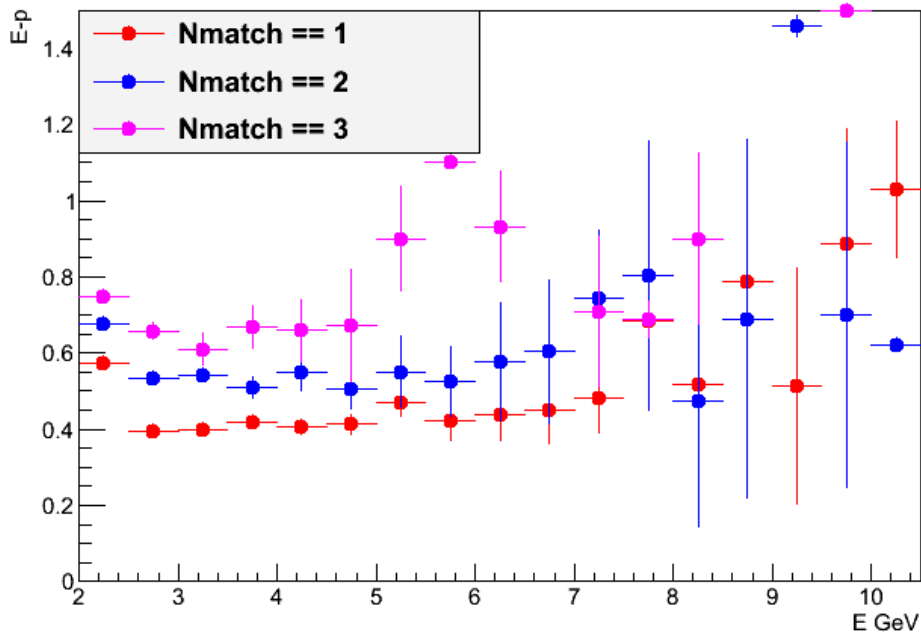


## E- p distributions for # of matched track / cluster cuts



## E-p distribution (Profile)

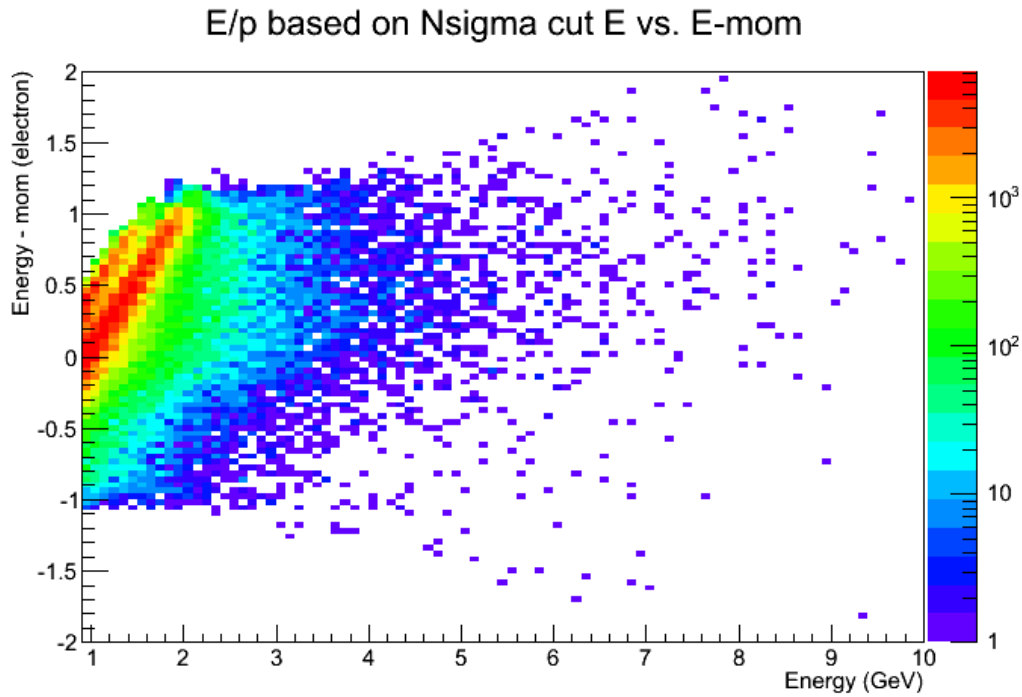
E-p for electron candidates vs. E



# E- p for electron candidates (charge dependence)

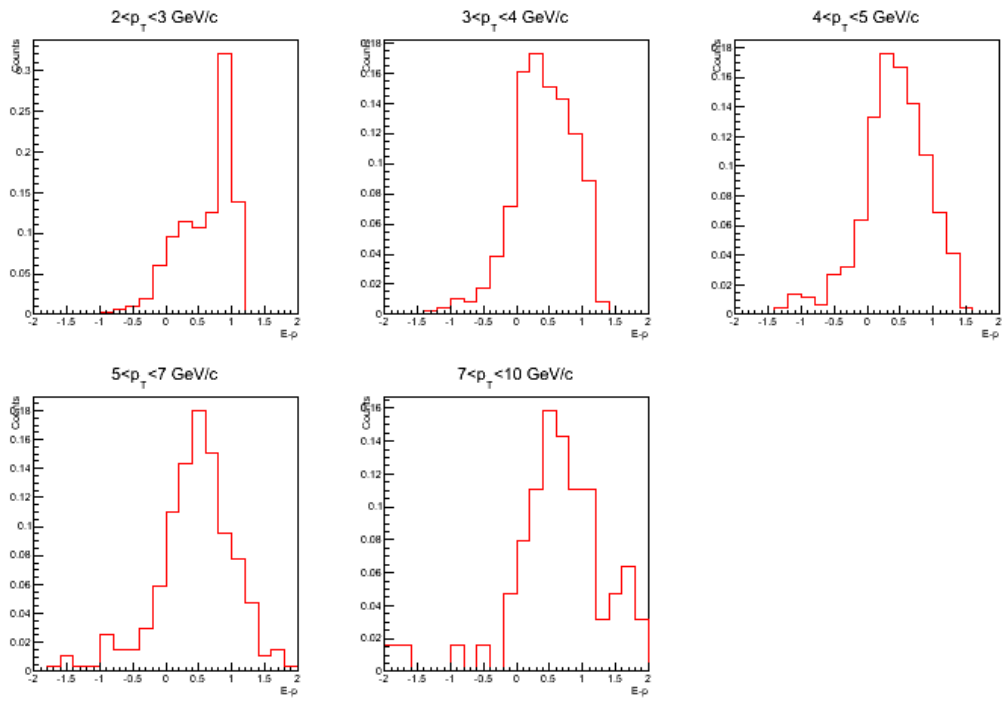
electrons

E- p vs. Energy

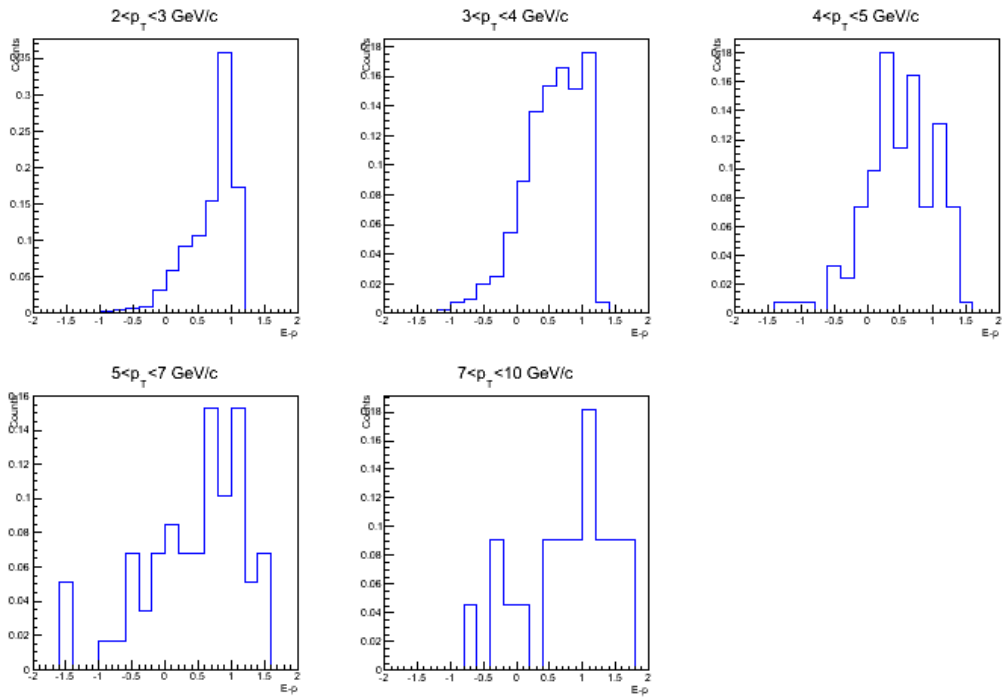


E- p distributions for # of matched track / cluster cuts

# of match = 1



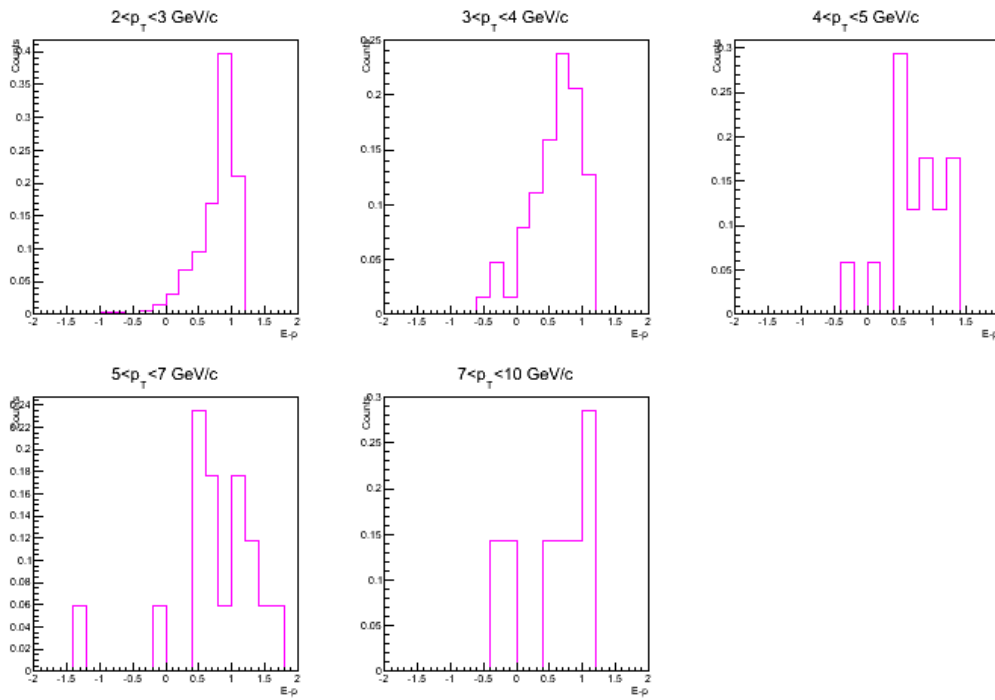
# of match = 2



# of match = 3

# of match = 1

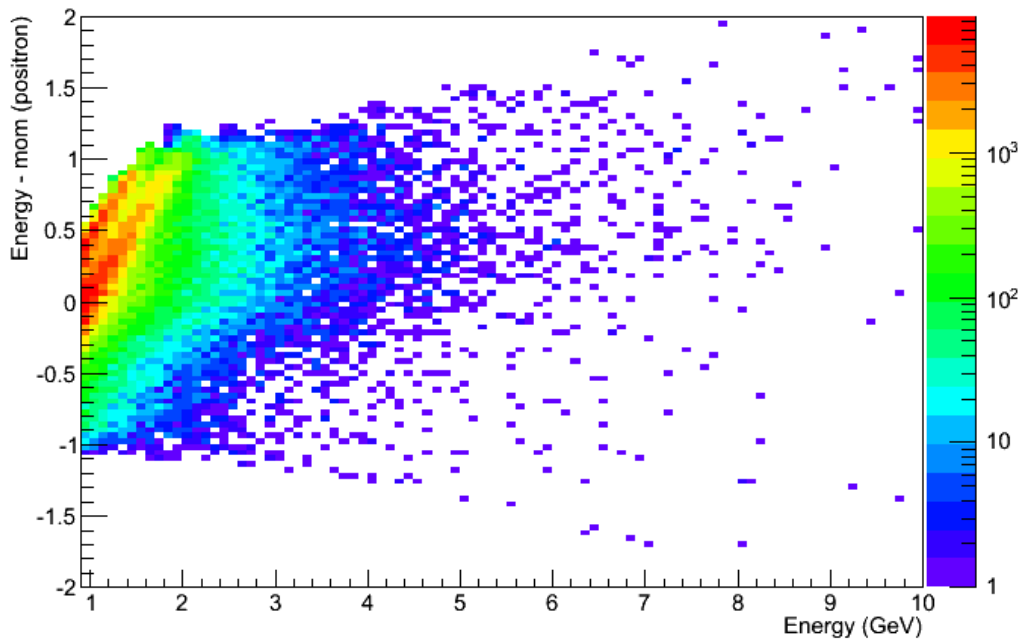




## positrons

### E- p vs. Energy

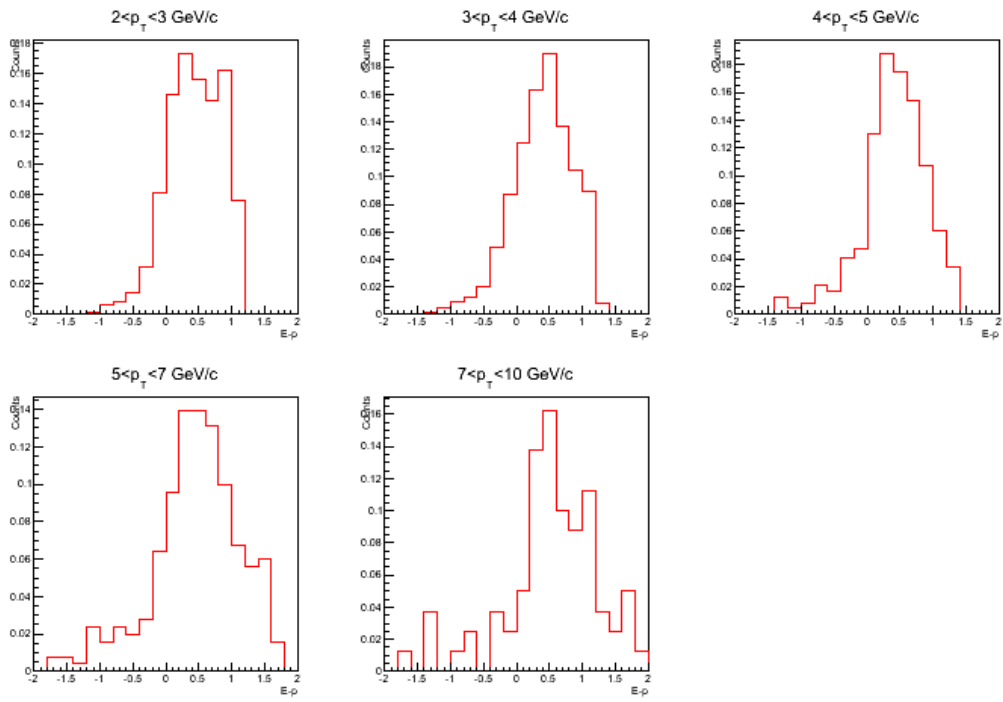
E/p based on Nsigma cut E vs. E-mom



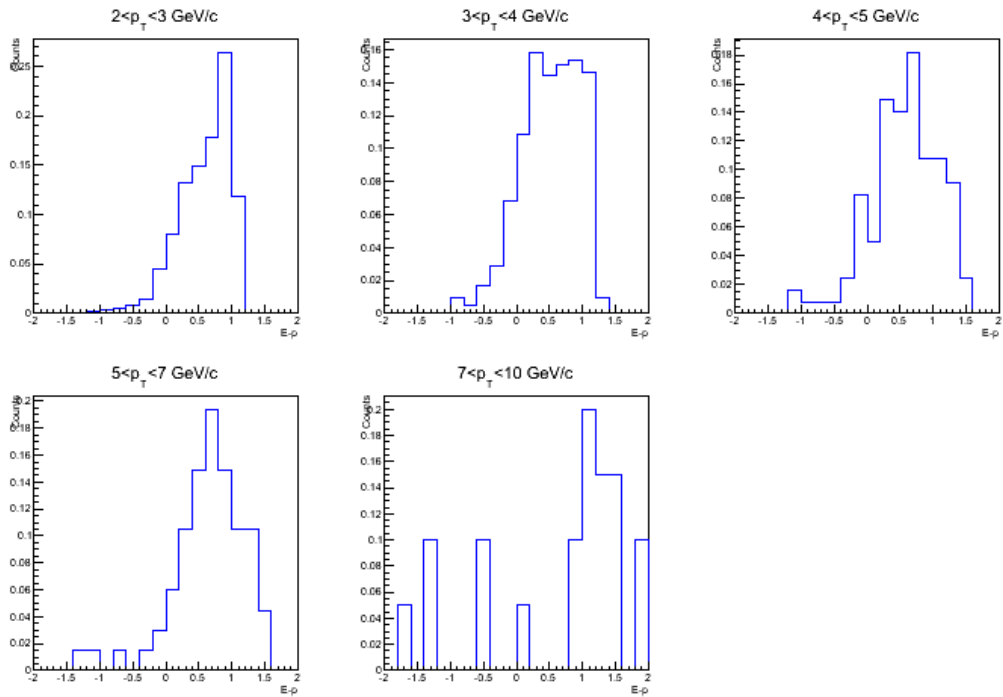
### E-p distributions for # of matched track / cluster cuts

# of match = 1

# of match = 3



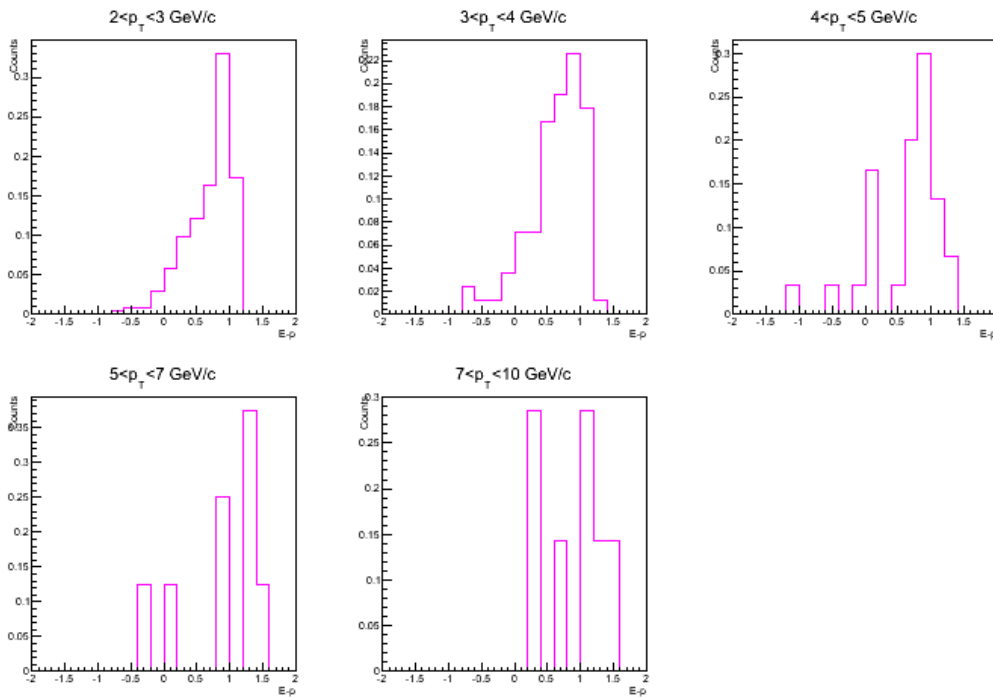
# of match = 2



# of match = 3

# of match = 1

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-- /u/shingo/WRK\_eliza8/2012/02/25/LHC11h

-- ShingoSakai - 09-Mar-2012

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This topic: Main > 03092012TrackMatchingStudyInTheCentralTrigger

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