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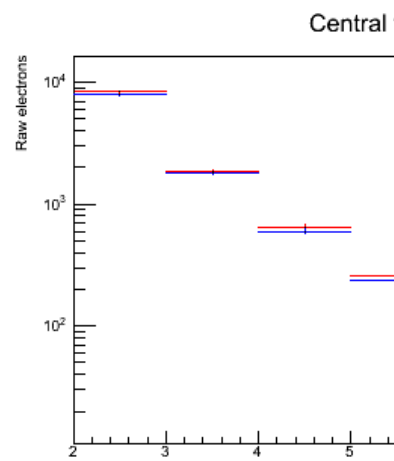
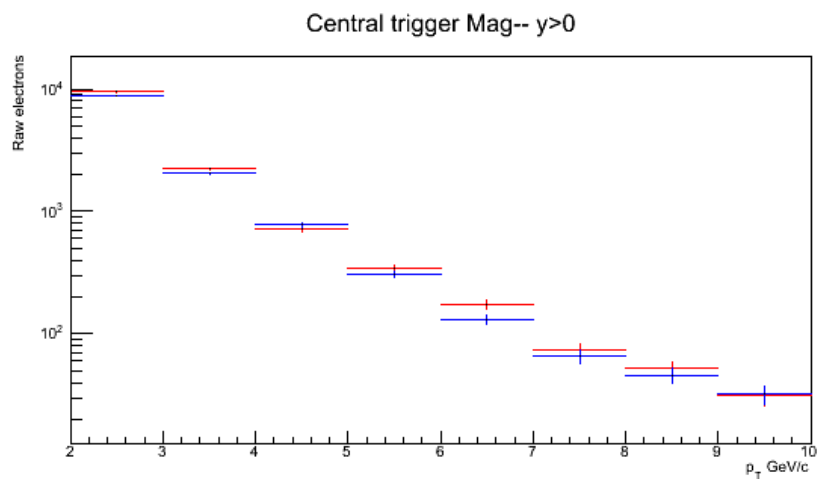
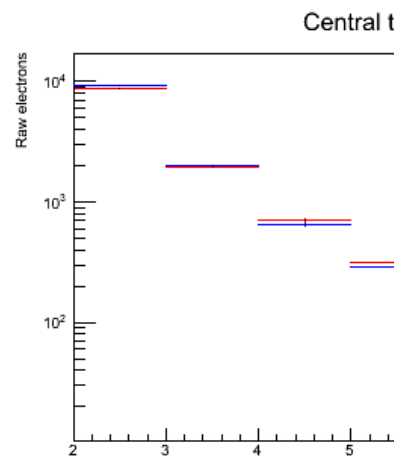
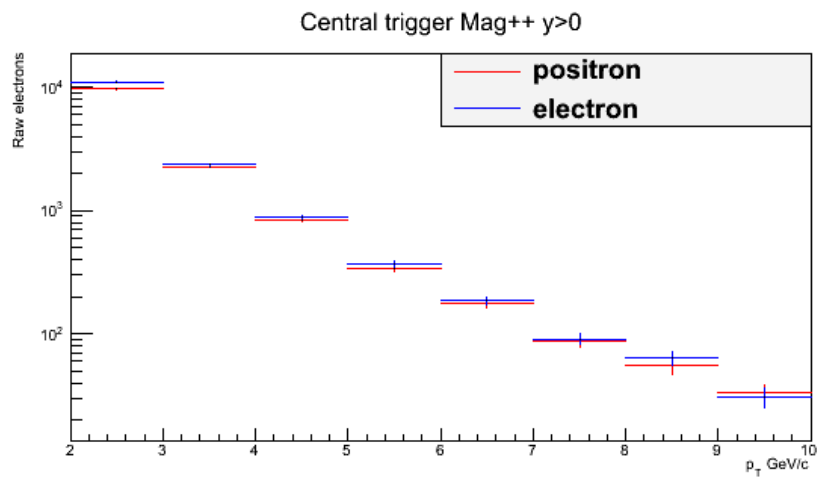
# Overview

- Studied charge and eta dependence of electron yield in the different magnetic field (++,--)
- Centrality 0-10 %
- checked central trigger and EMCal trigger
- eID cuts
  - ◆ track cuts
  - ◆  $-1 < n\sigma < 3$
  - ◆  $0.9 < E/p < 1.3$  &  $M20 < 0.3$

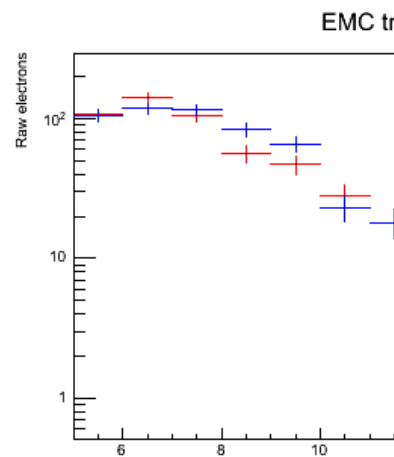
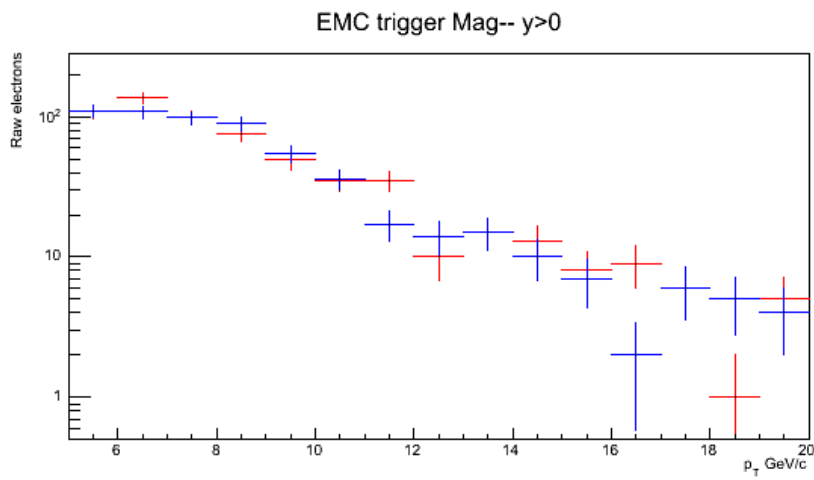
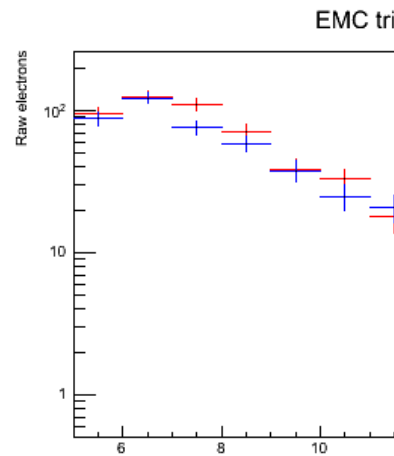
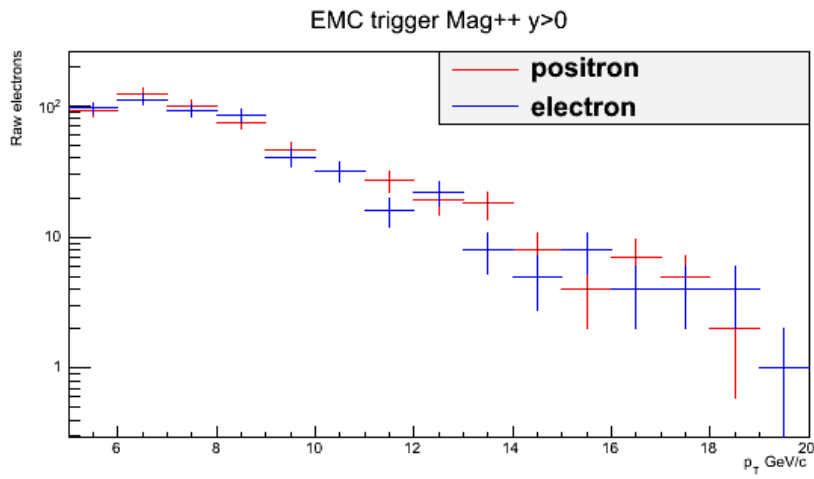
# Result for electron

## Raw electron yield

### Central trigger



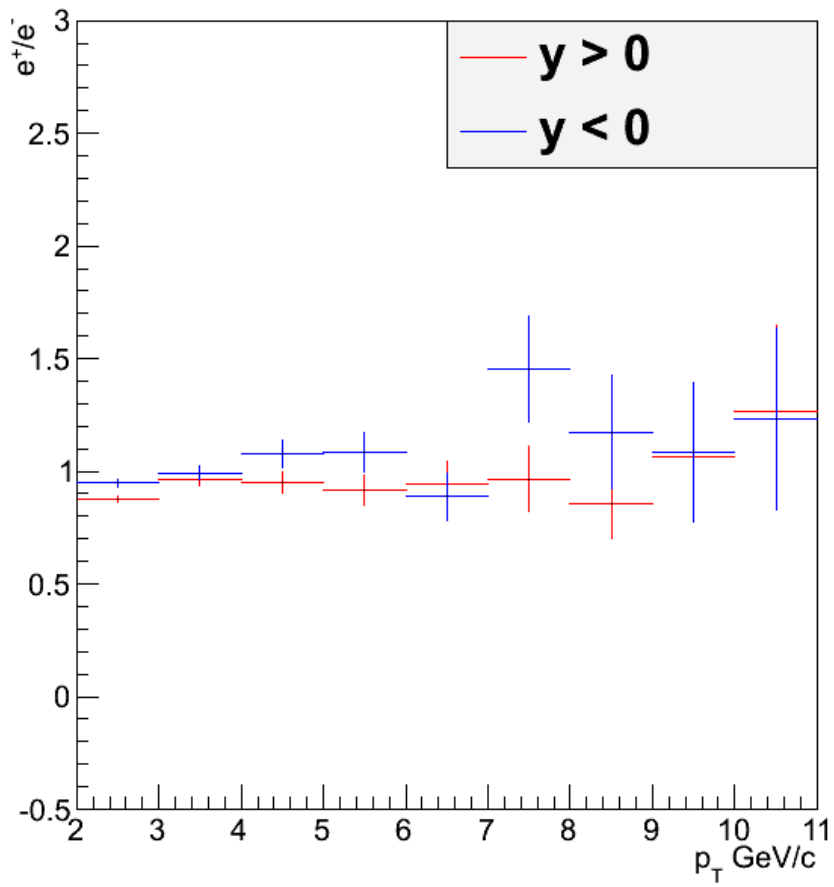
### EMCal trigger



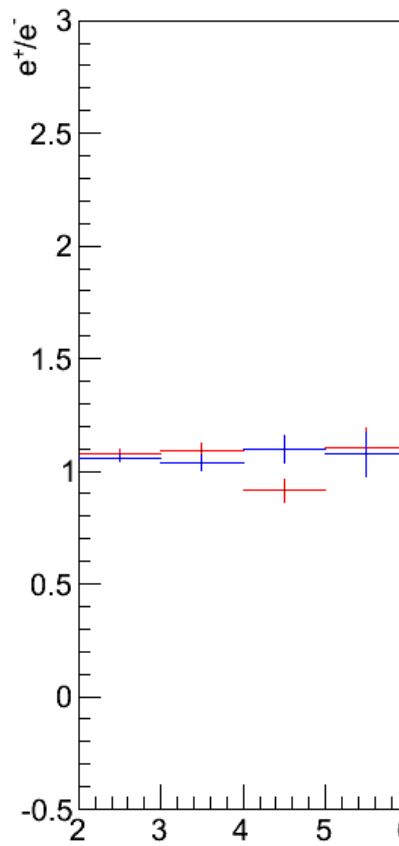
**e+/e- ratio**

**Central trigger (0-10%)**

## Central trigger Mag++

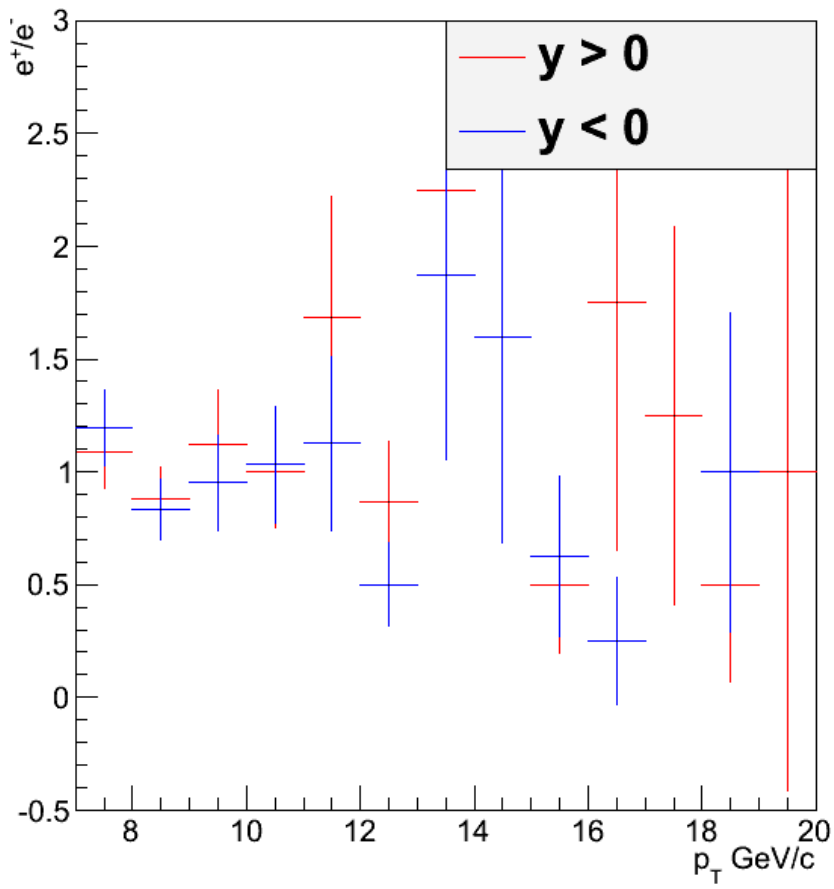


## Central

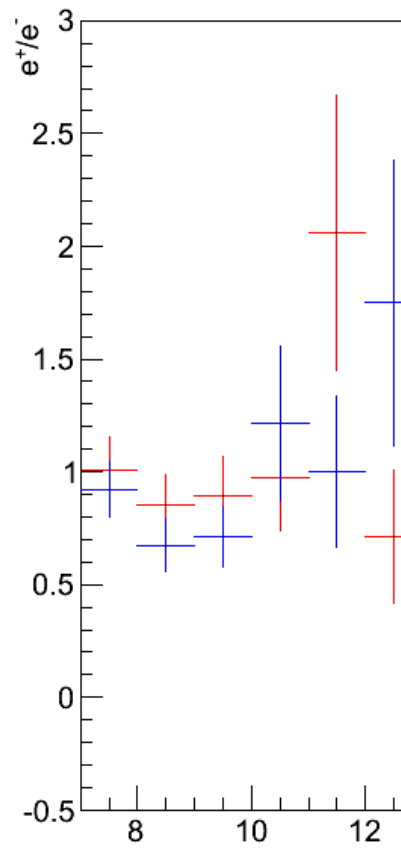


## EMCal trigger (0-10%)

EMC trigger Mag++

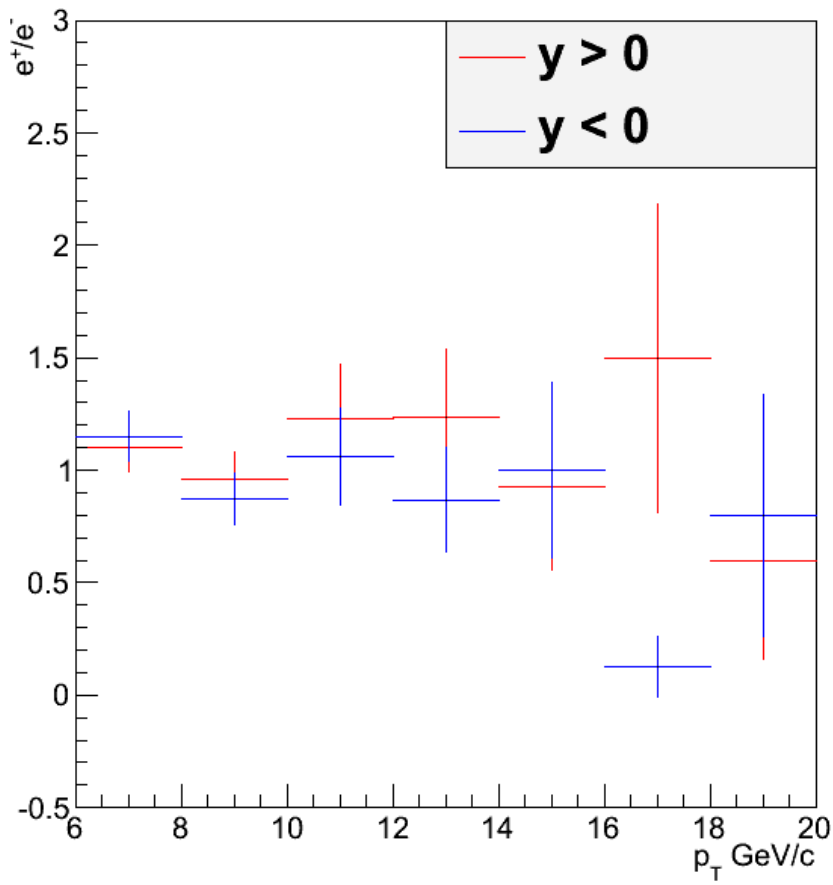


EMC t

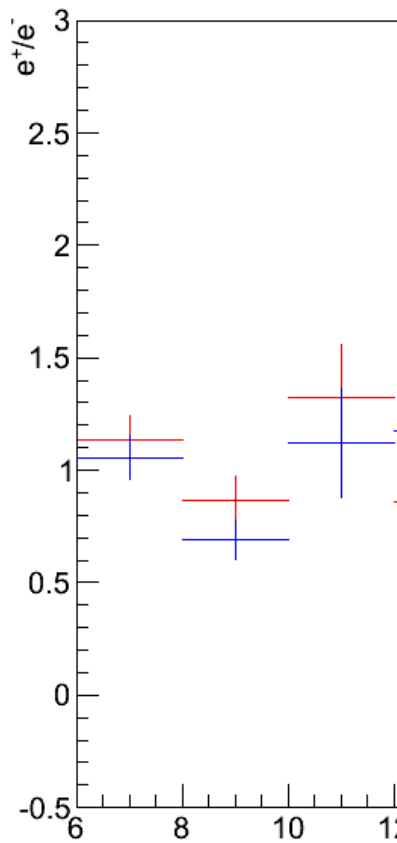


- Rebin the above

EMC trigger Mag++



EMC tr

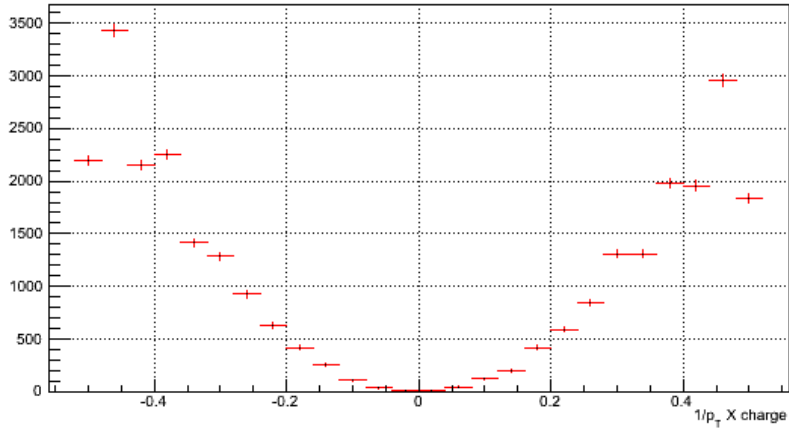


## 1/pT X charge distribution

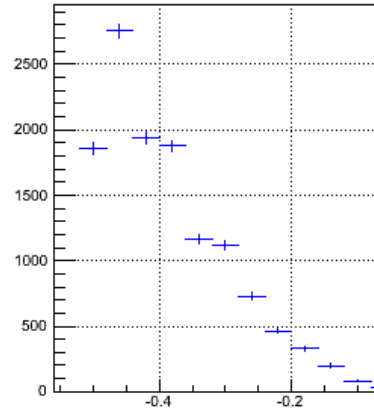
- $-1/p_T$  --- electron
- $1/p_T$  --- positron

## Central trigger (0-10%)

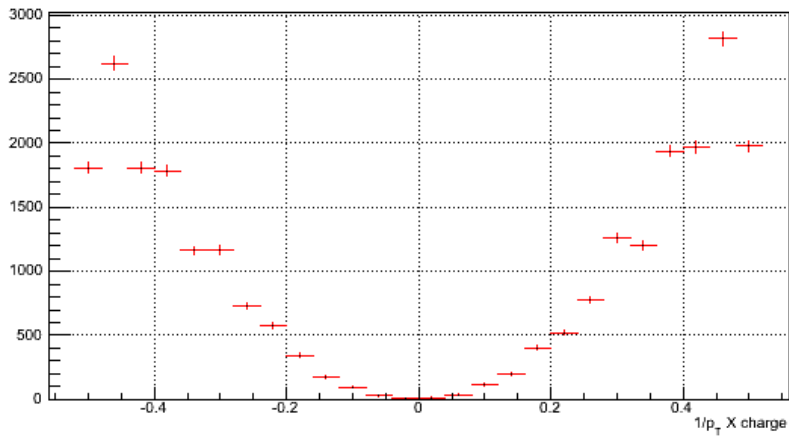
Cent. Trigger Mag++ y>0



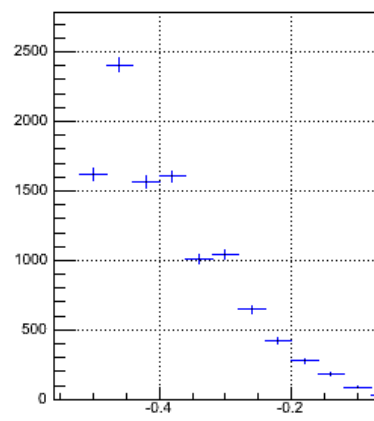
Cent. Tr



Cent. Trigger Mag-- y>0

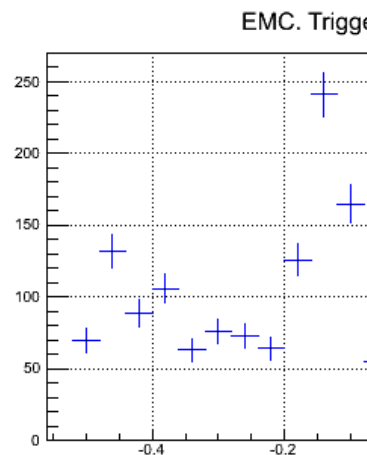
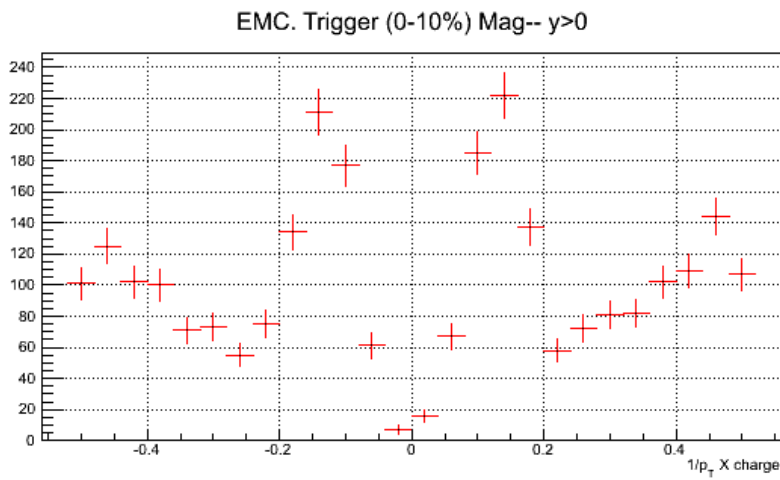
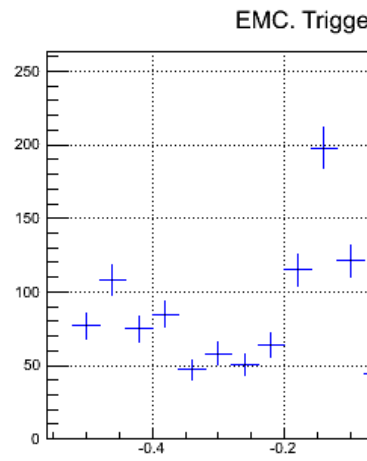
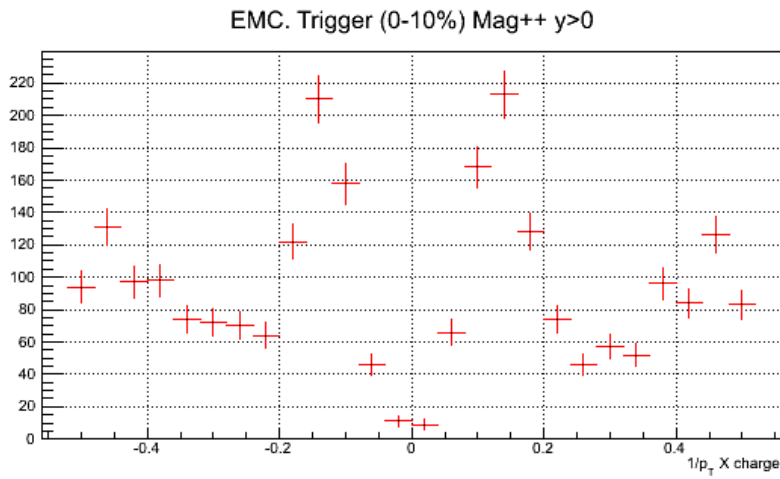


Cent. T



### EMCal trigger (0-10%)



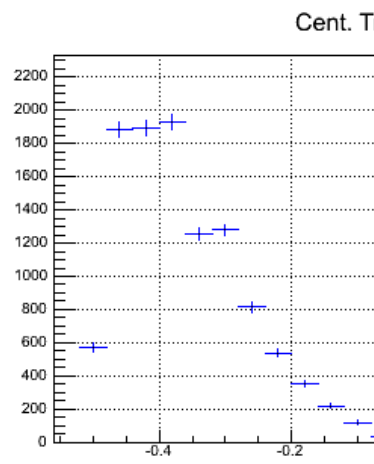
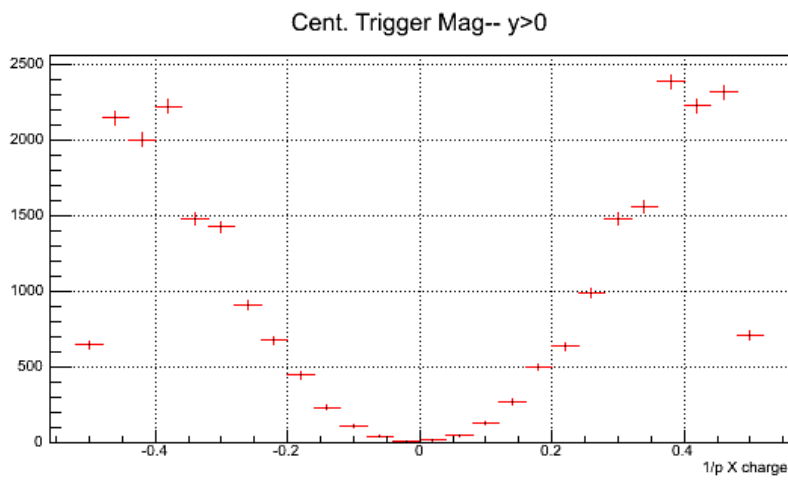
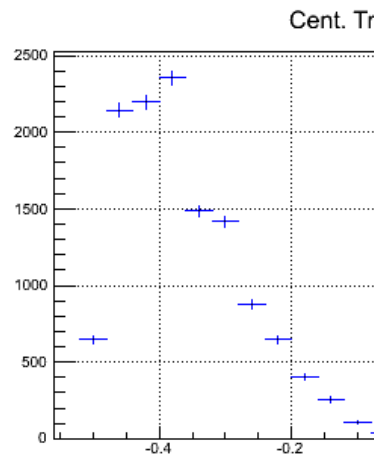
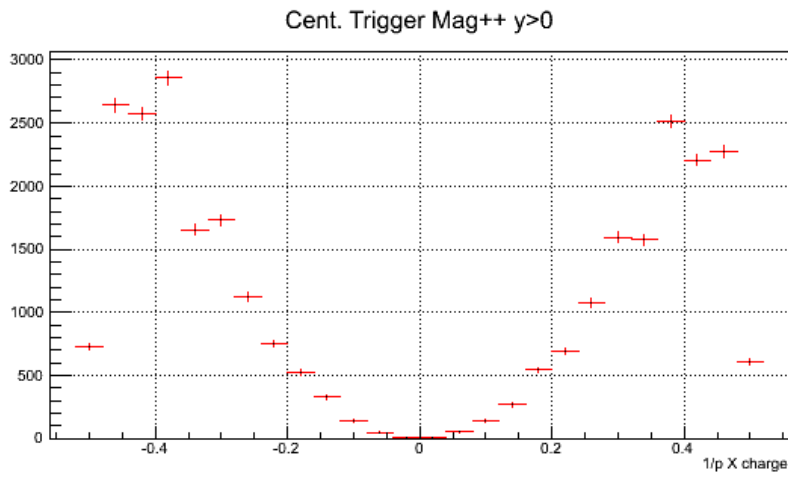


## 1/p X charge distribution

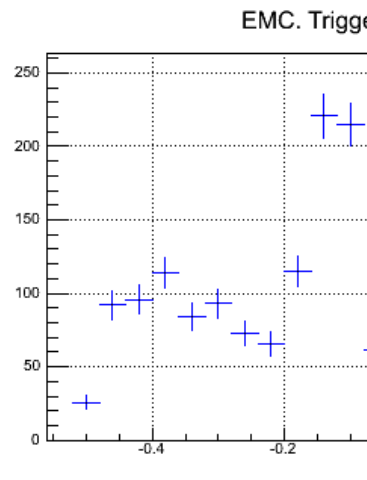
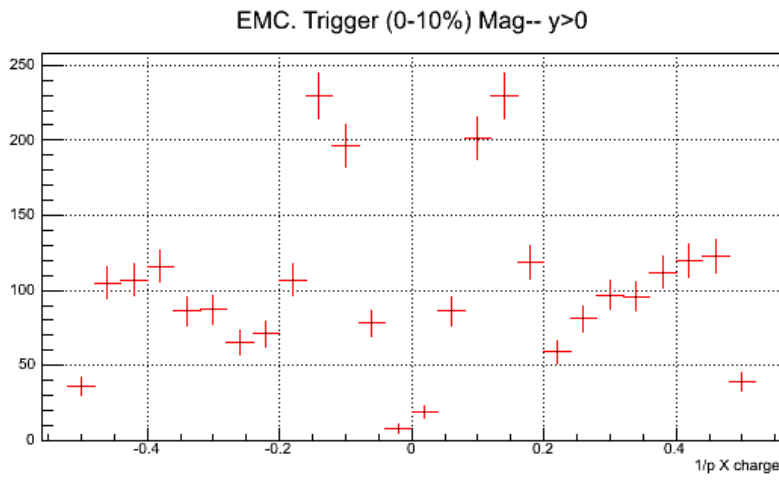
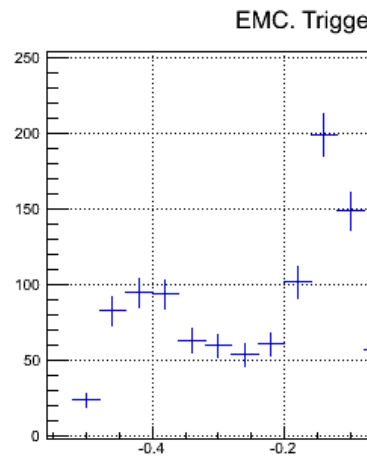
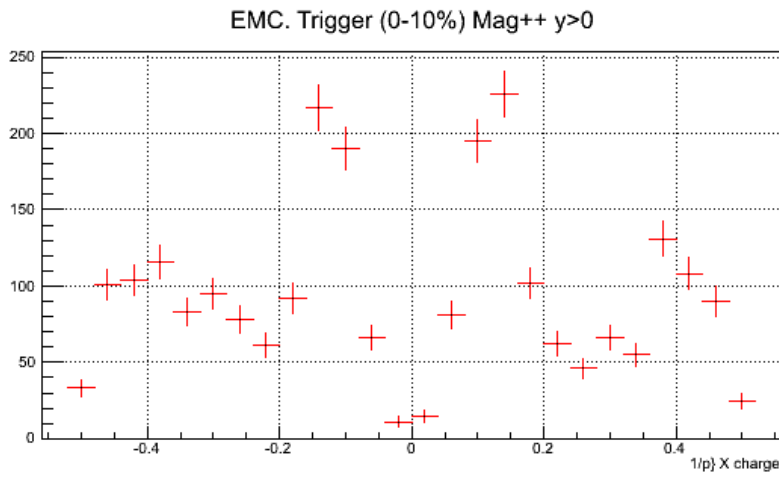
- -1/p --- electron
- 1/p --- positron

## Central trigger (0-10%)

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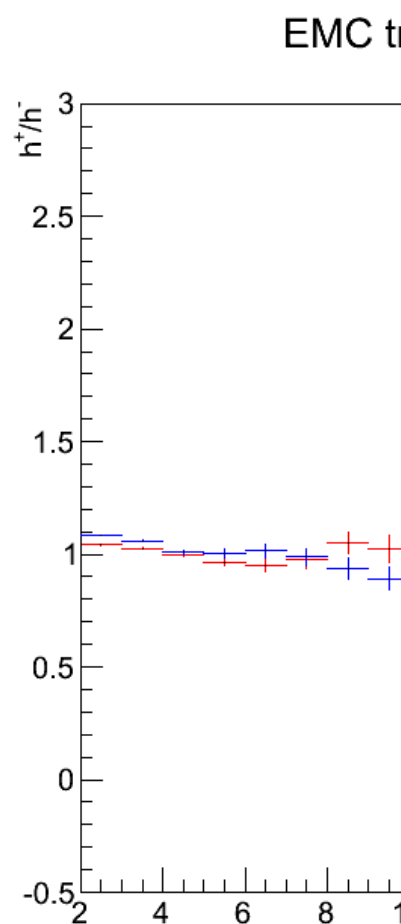
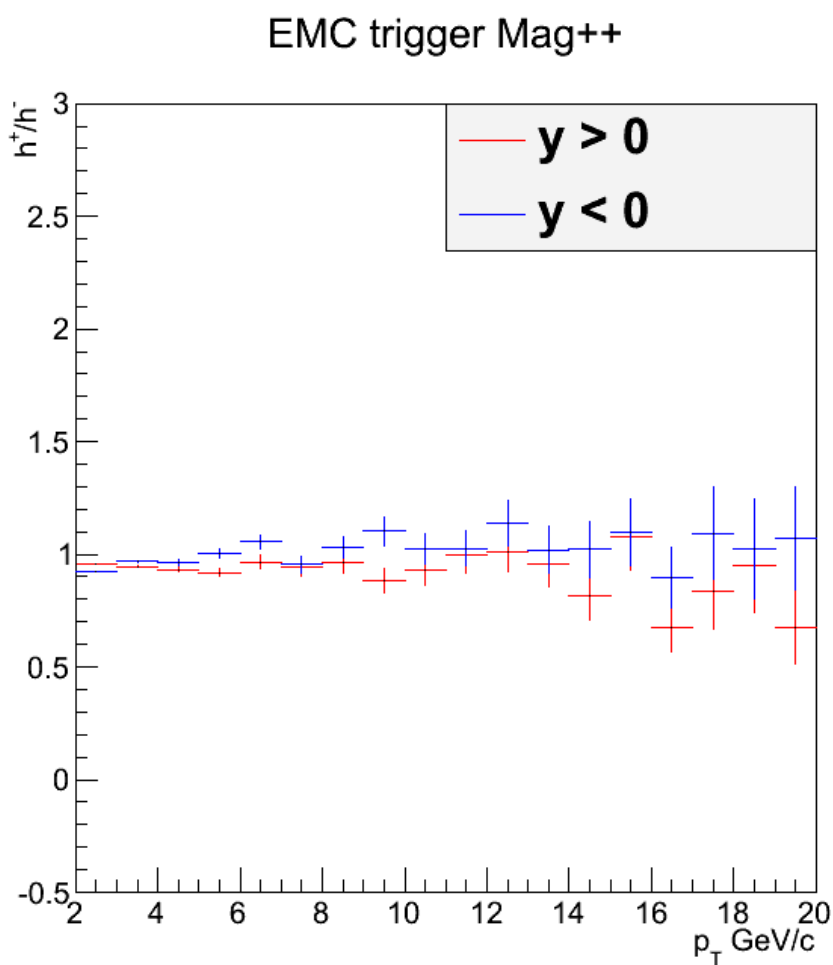


**EMCal trigger (0-10%)**

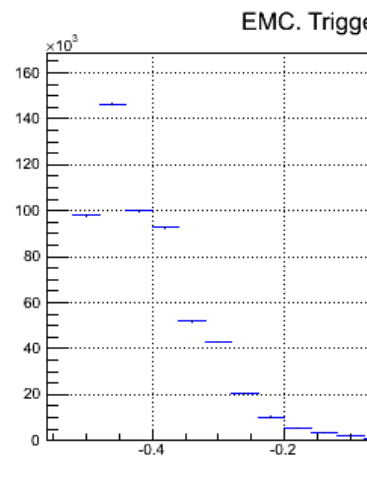
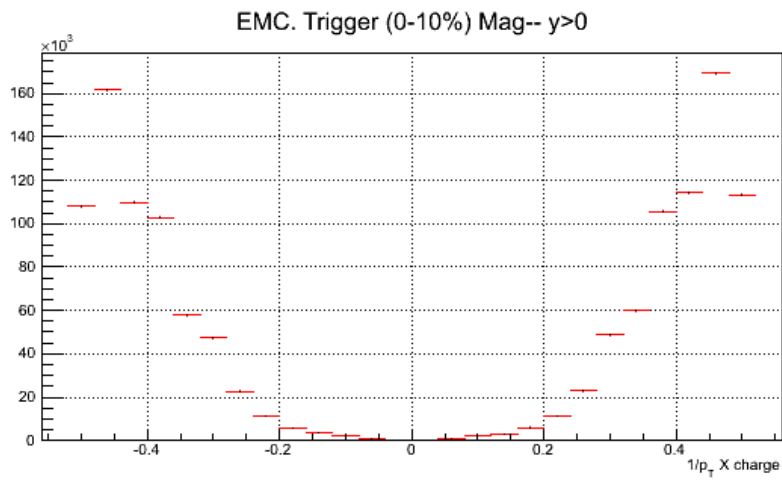
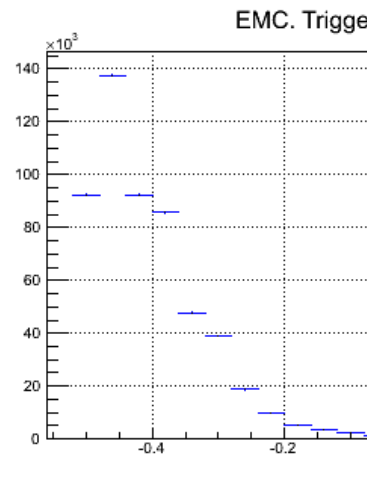
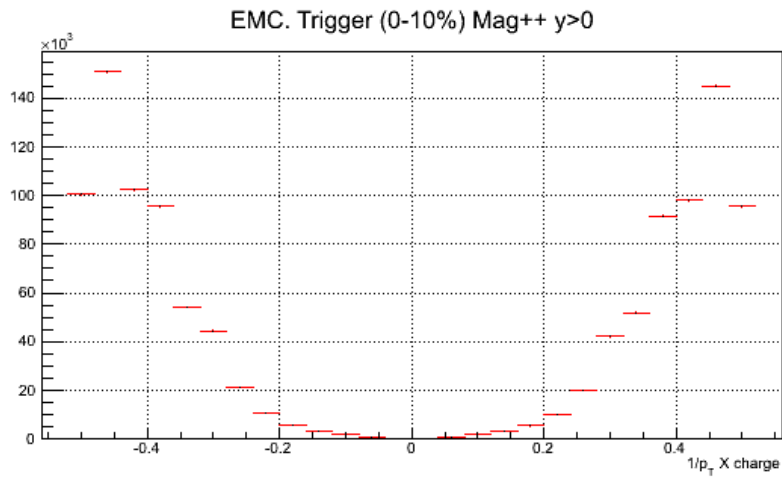


# Result for hadron (EMCal trigger)

## $h^+/h^-$ ratio

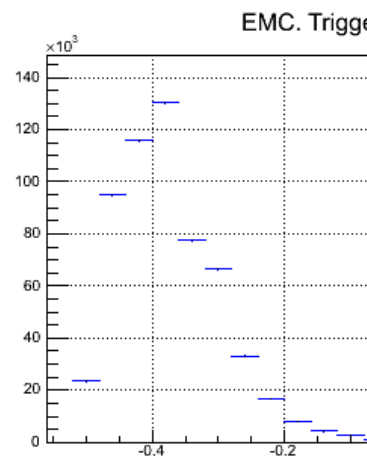
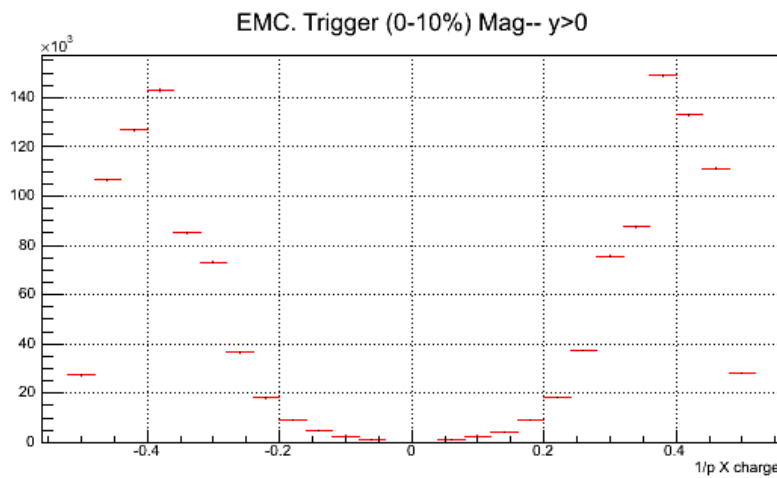
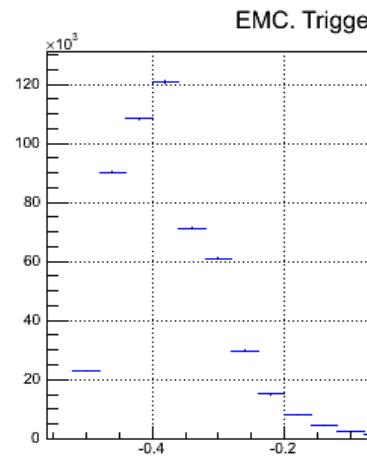
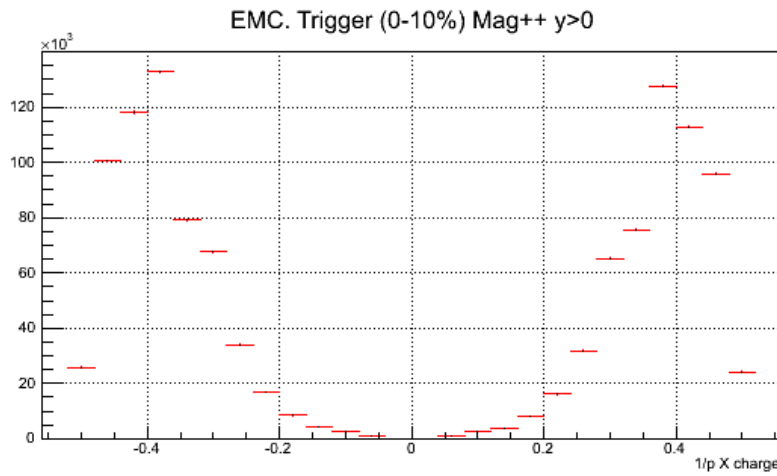


## 1/pT X charge distribution



## 1/p X charge distribution

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-- ShingoSakai - 16-May-2012

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This topic: Main > 05152012ChargeDependence  
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