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# Overview

- Compared raw electronspectrum with/ without  $M_0$  cut
- Hadron contaminations were estimated by using  $E/p$  ( $n\text{Sigma} < -3.5$ ) in both case
- EMCal trigger (0-10%)

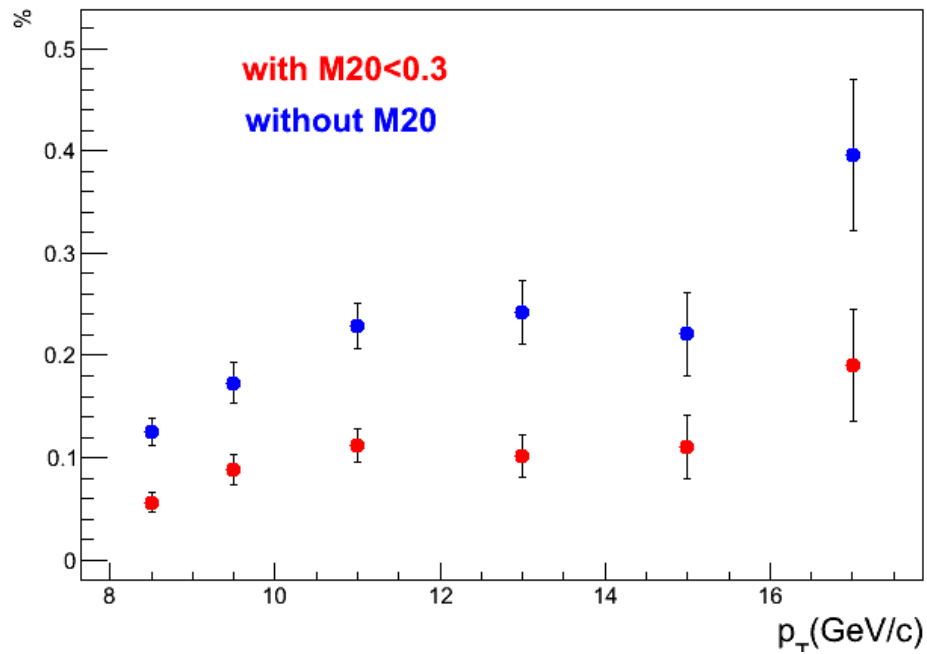
## Related analysis

- Systematic study for background subtraction with/without  $M_{20}$  cut
  - ◆ <https://twiki.cern.ch/twiki/bin/view/Main/05252012SystematicStudyForL>
- Subtracted hadron contamination by using  $E/p$  ( $n_{\text{Sigma}} < -3.5$ ) with/without  $M_{20}$  cut
  - ◆ <https://twiki.cern.ch/twiki/bin/view/Main/05182012BackgroundSubtraction>

# Results

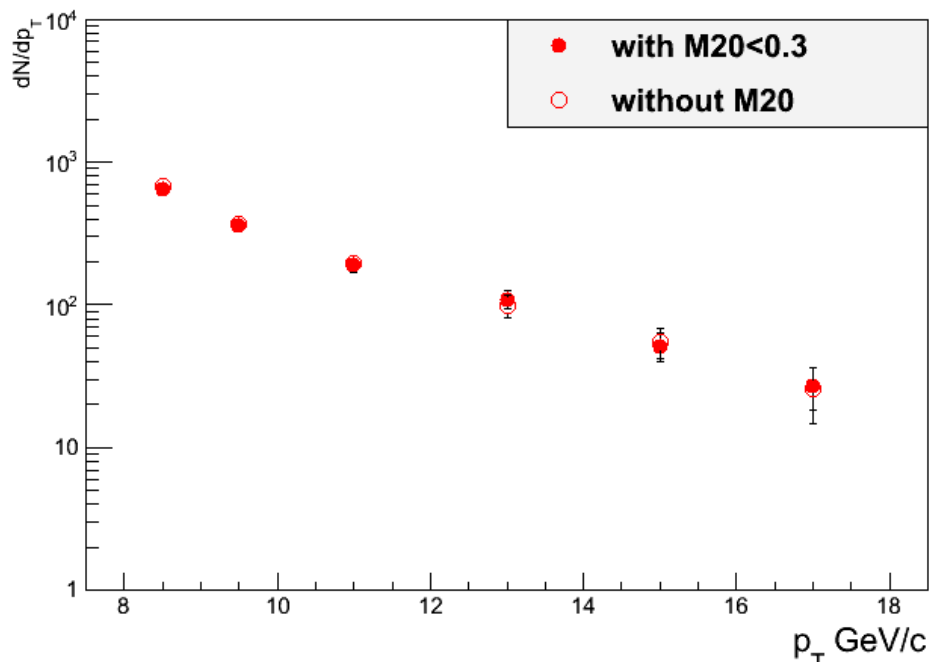
- Hadron contamination in the spectrum with/without  $M_{20}$  cut

Hadron contamination ( $0.9 < E/p < 1.3$ )

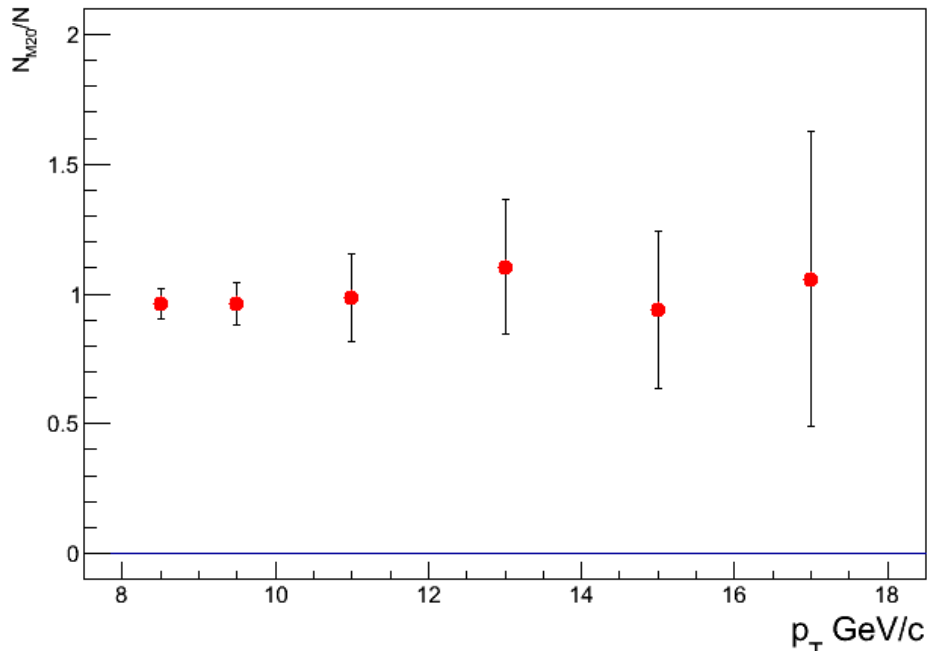


- Raw electron spectrum with/without  $M_{20}$  cut after background subtraction

Raw Counts of Electron



Ratio with/without M20 (b.g. Subtracted)



- with  $M20 < 0.3$ , we improve the hadron contamination around 10% but not lose electrons

-- ShingoSakai - 26-May-2012

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This topic: Main > 05262012UncertaintyFromBackgroundSubtraction  
 Topic revision: r5 - 2014-06-09 - ShingoSakai



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