

# W+ONE JET AND W+TWO JETS

[Varsha Ramakrishnan]

# Today/Summary From Last Mondays Meeting

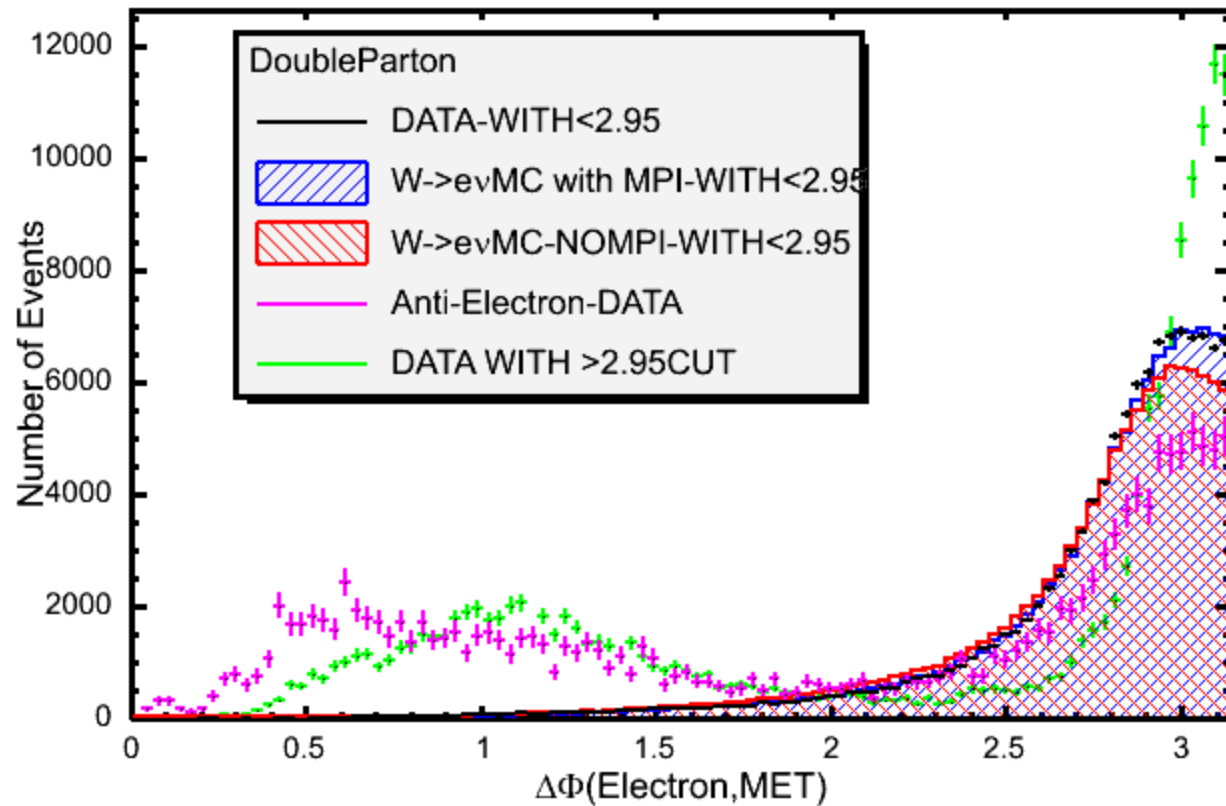
## TODAY:

1. Electron-Variables/Jet-Variables/Electron-Jet for  $\Delta\phi(\text{Electron}, \sum \text{JetPT}) > 2.95$ 
  - W+ ONE JET
  - W+TWO JETS
2. Scatter and Azmituhal Plots for  $\Delta\phi(\text{Electron}, \sum \text{JetPT}) > 2.95$ 
  - $\Delta\phi(\text{Electron}, \text{Leading}) > 2.2$  radians
  - $\Delta\phi(\text{Electron}, \text{Leading}) < 2.2$  radians
  - $|\Delta Z(\text{Electron}, \text{Leading})| > 0.04$  cm AND  $|\Delta Z(\text{electron}, \text{Second})| > 0.04$  cm AND  $|\Delta Z(\text{Second}, \text{Leading})| < 0.04$  cm

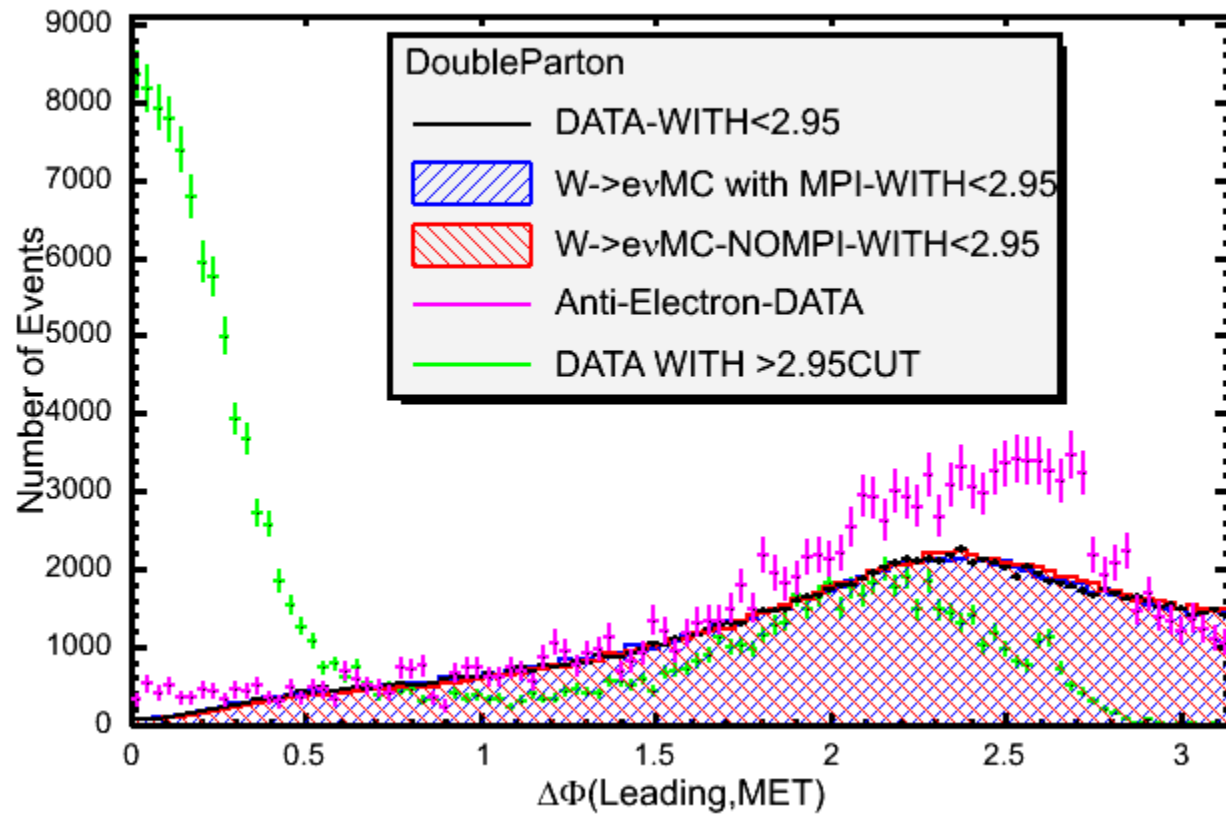
# Tight/W/MET Cuts

- Tight electron cuts applied to select the Electron from the Ntuple
- Electron-Jet object removed from the Jets in the Ntuple
- Jets with L5 JES corrected  $ET > 5 \text{ GeV}$  and  $|\eta| < 2$  selected
- $\Delta R(\text{Electron}, \text{Closest-Jet}) > 0.92 (1.3 * \text{radius of cone})$
- $\Delta\phi(\text{Tight-Electron}, \sum \text{Jet } ET) < 2.95$
- Missing ET corrected for Muons/Jets-Selected
- ONLY ONE Tight-Electron,  $MET > 30 \text{ GeV}$ , Transverse Mass  $> 50 \text{ GeV}$
- At least TWO Jets (as selected above)
- Above Leading/.Second Jet need to have at least TWO TRACKS in them

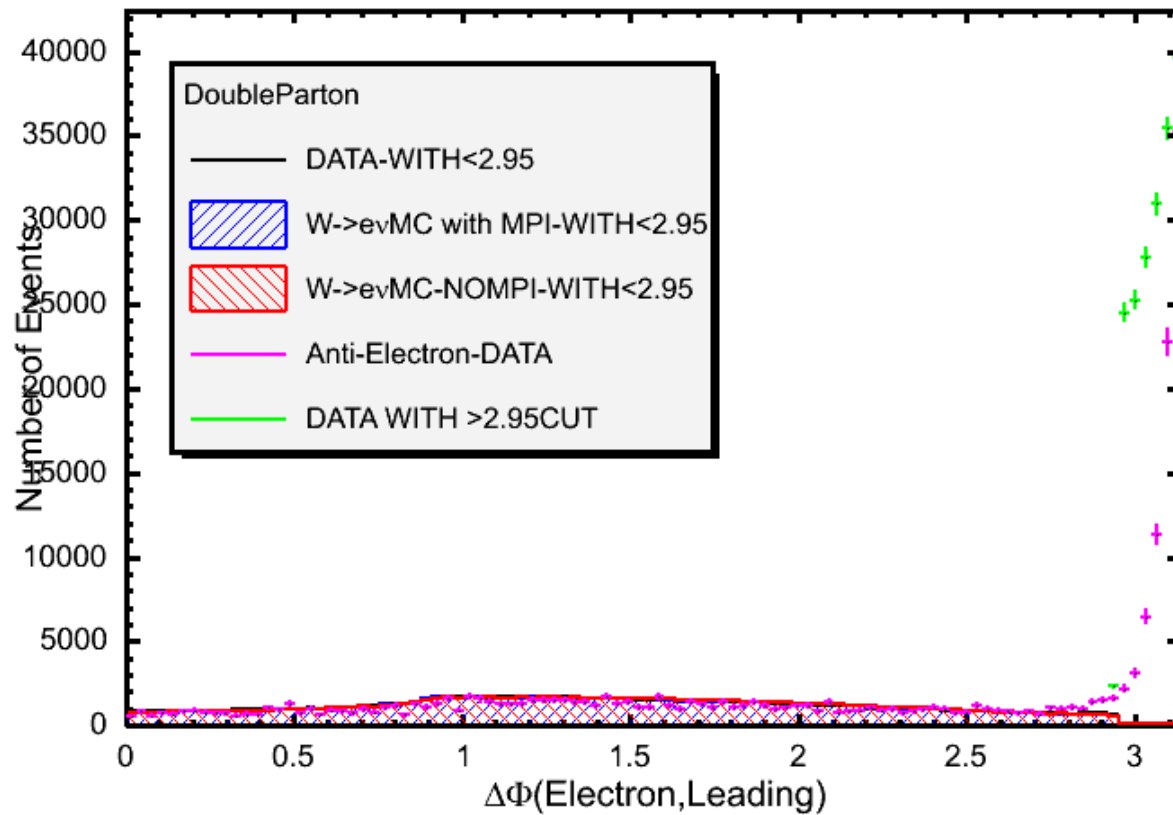
# W+ ONE JET



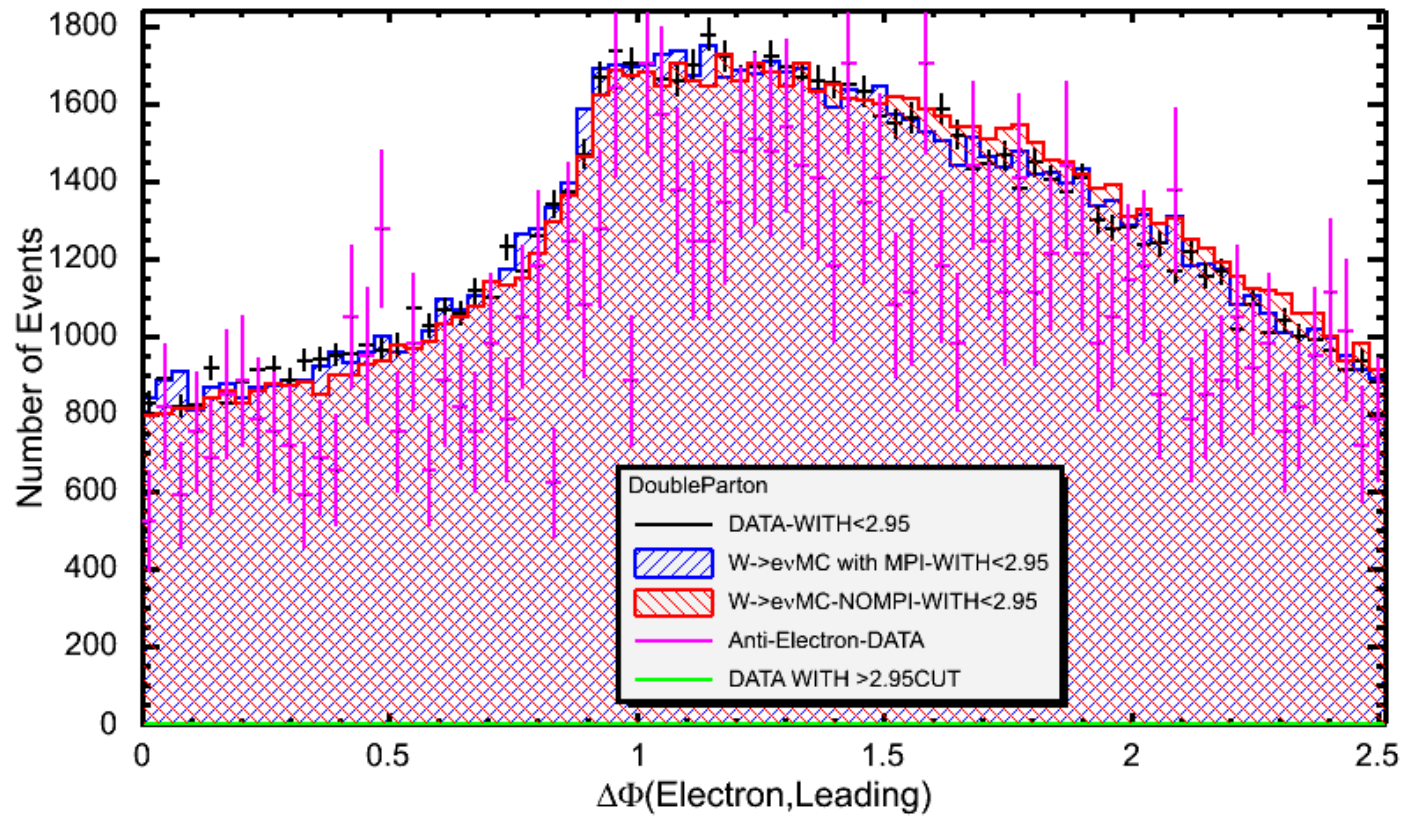
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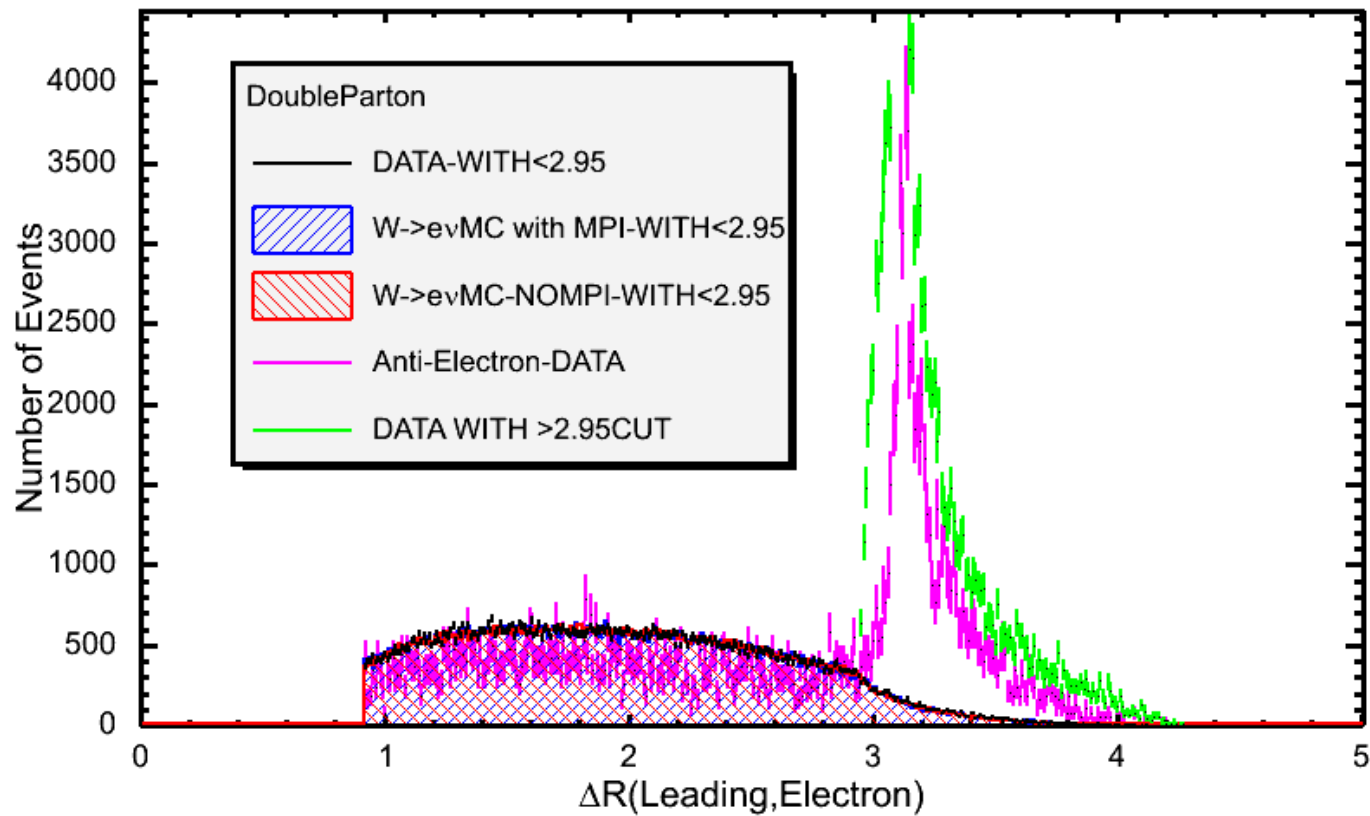
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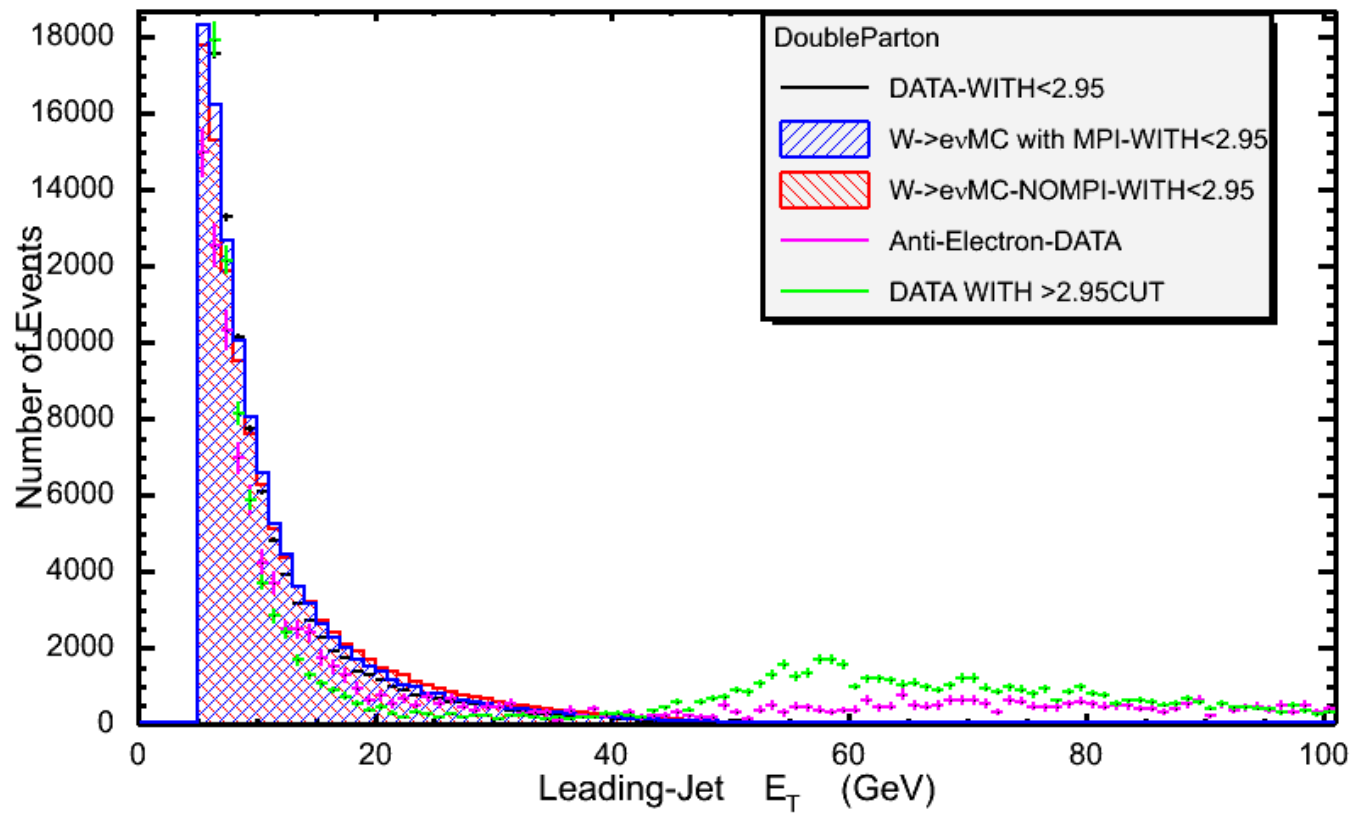
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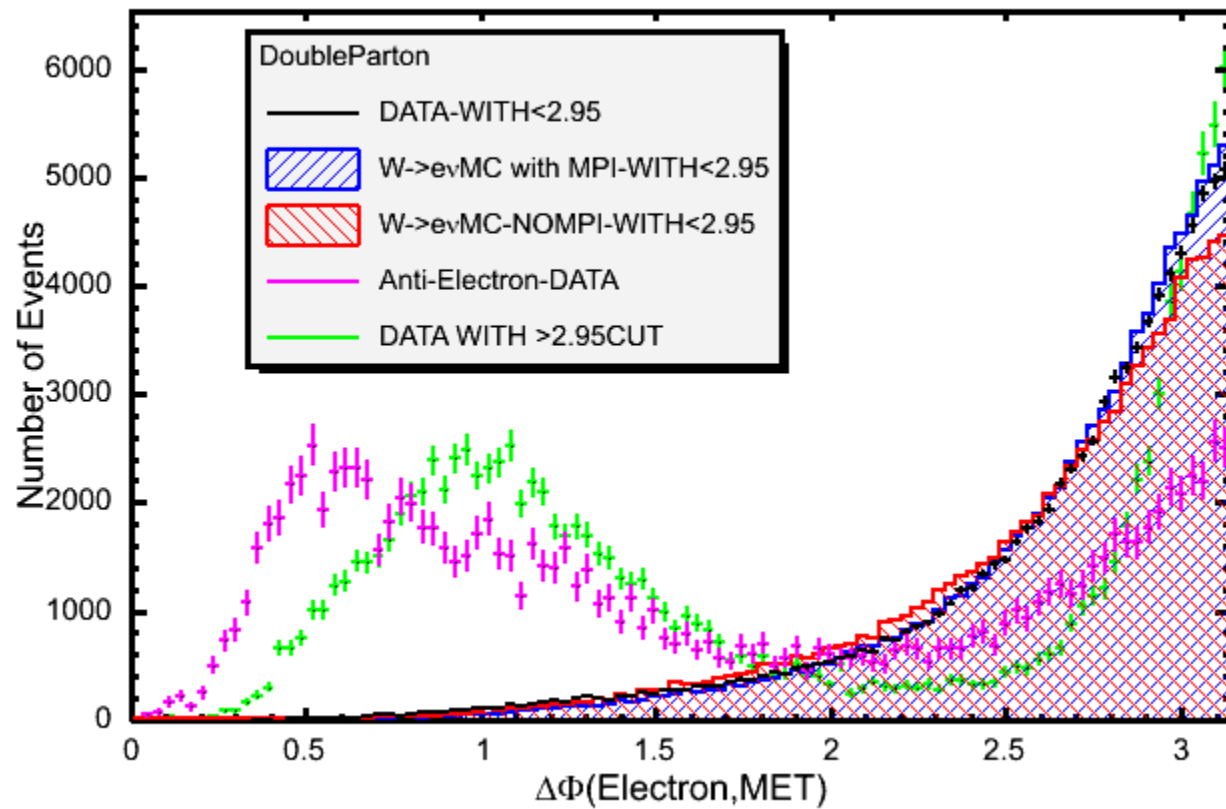
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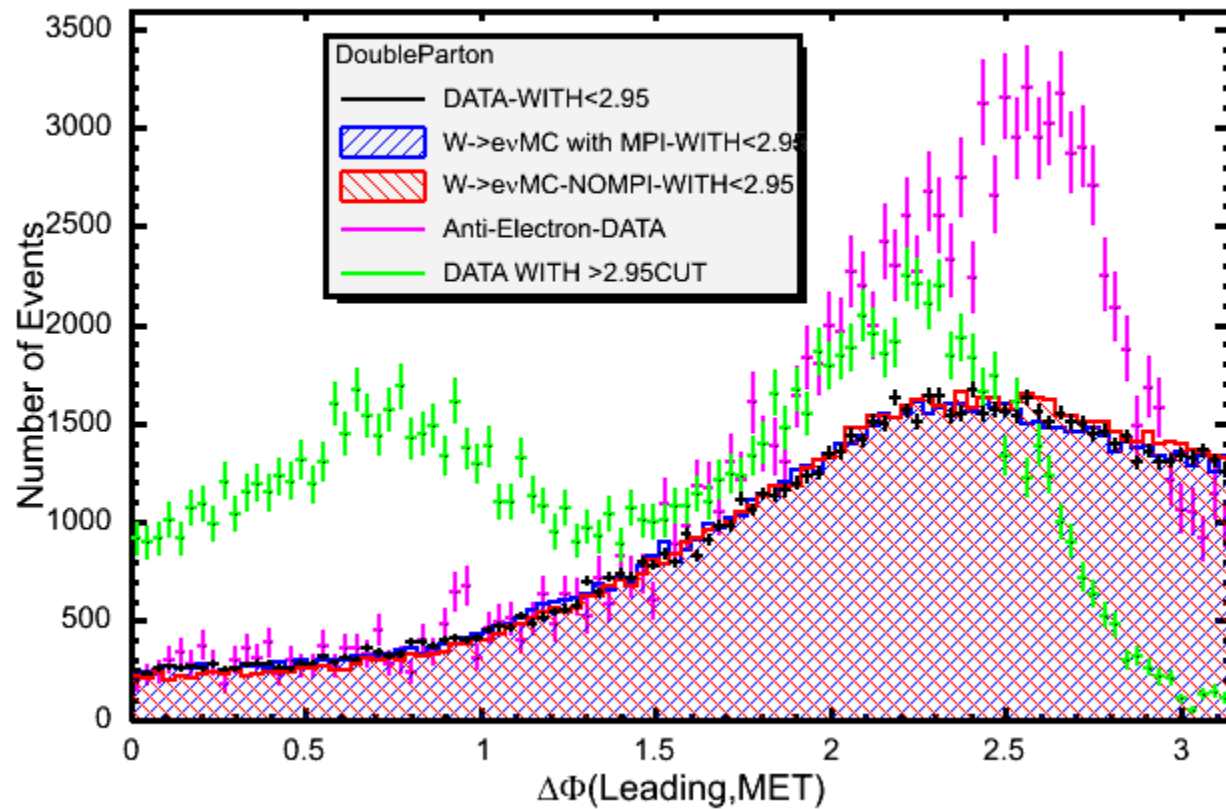
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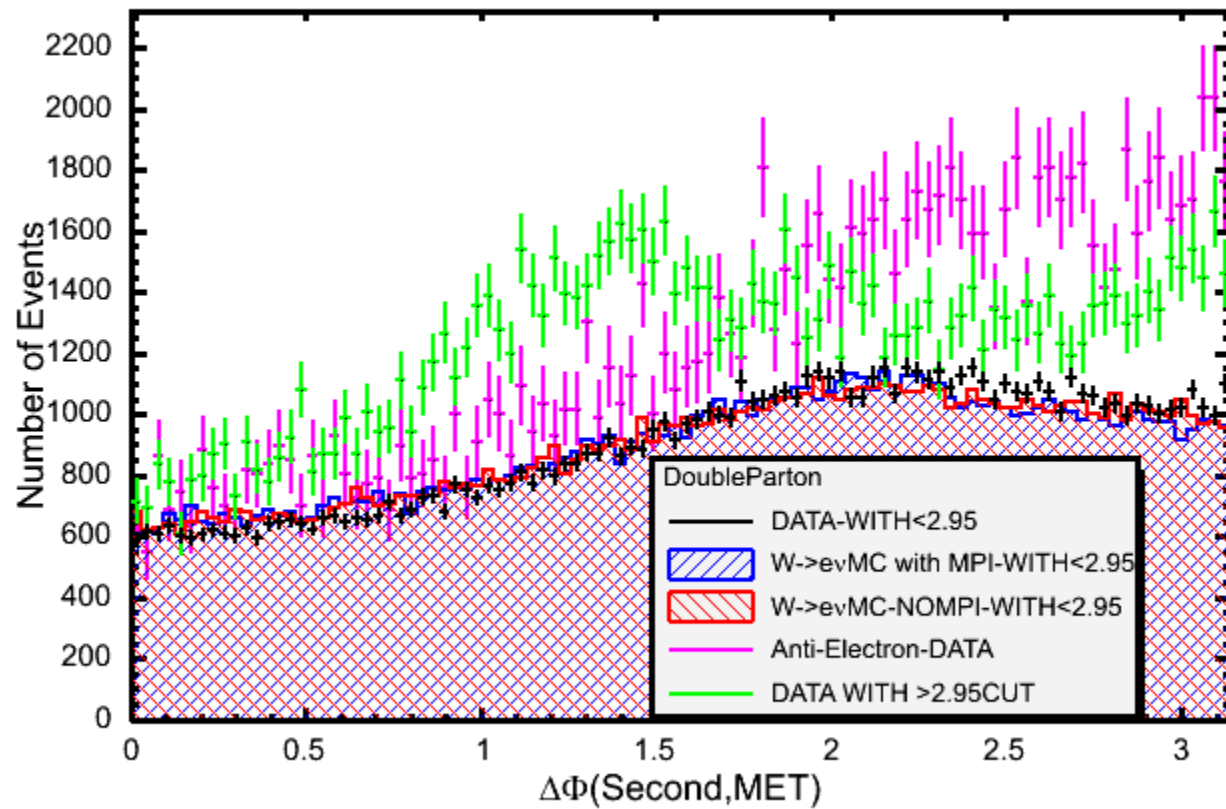
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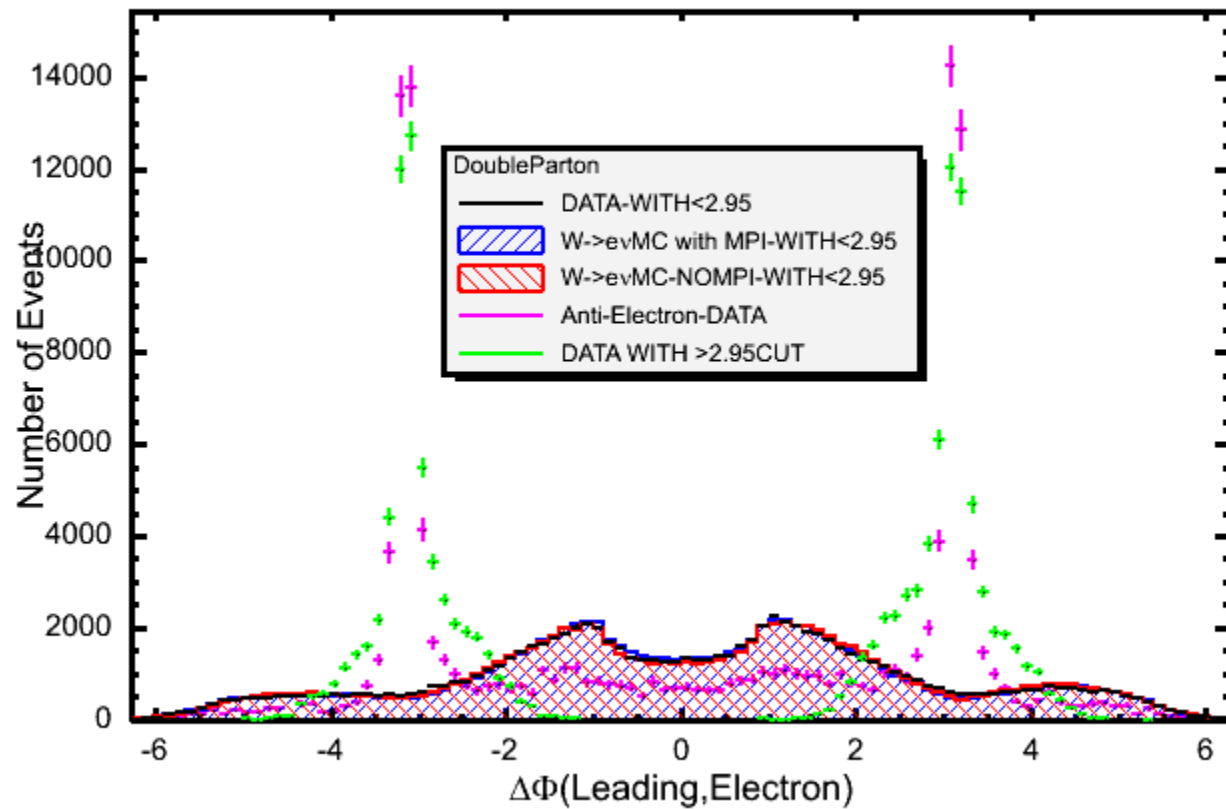
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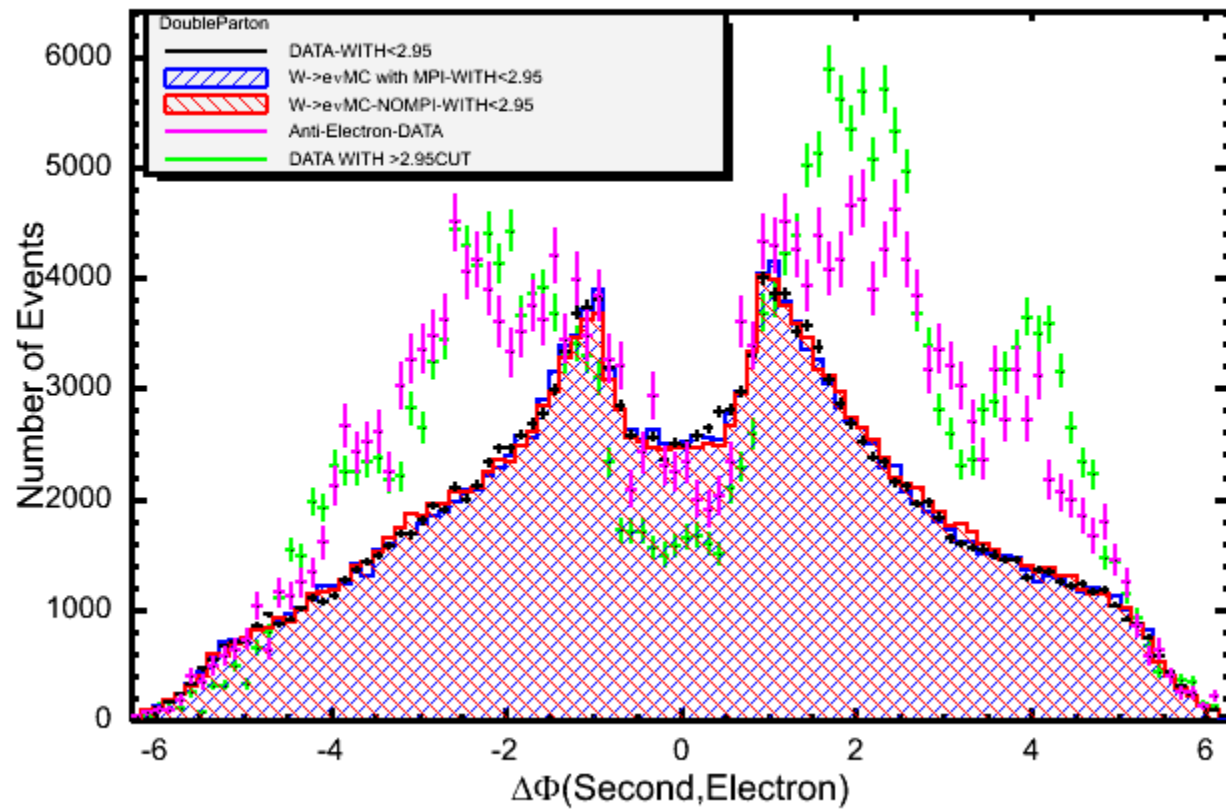
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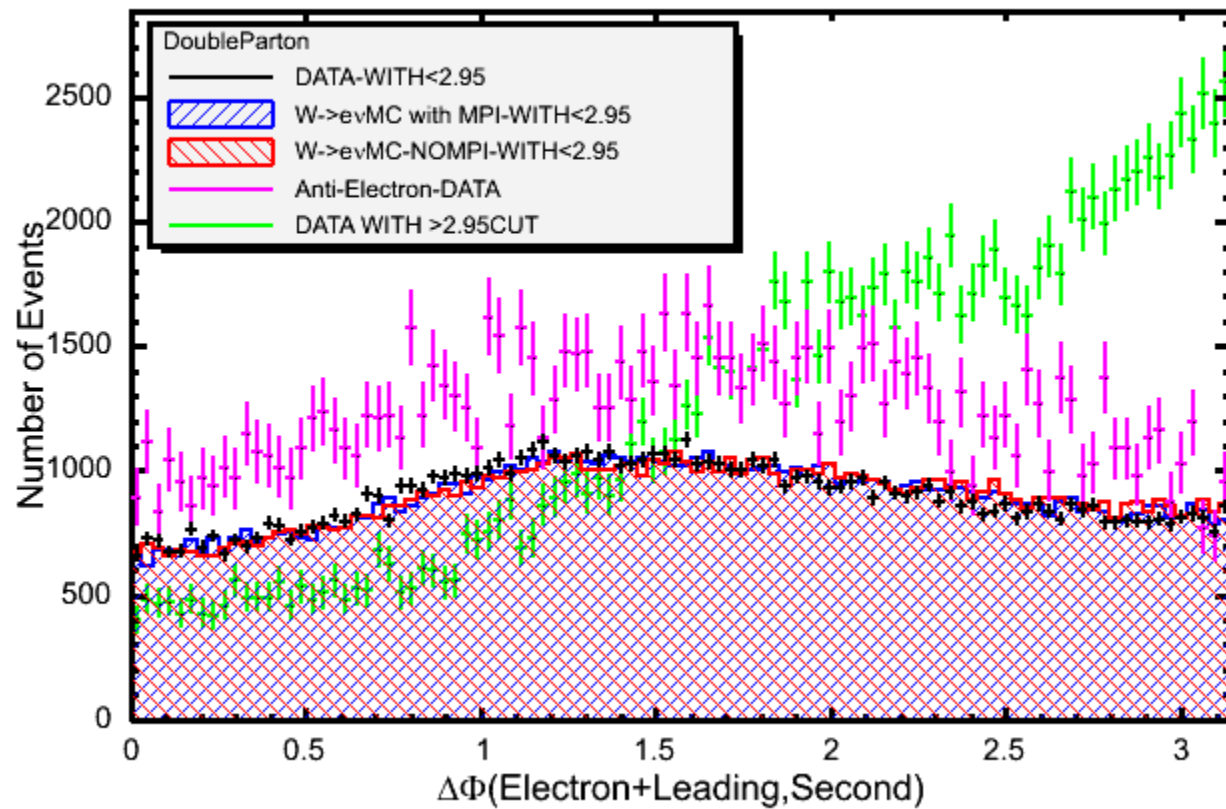
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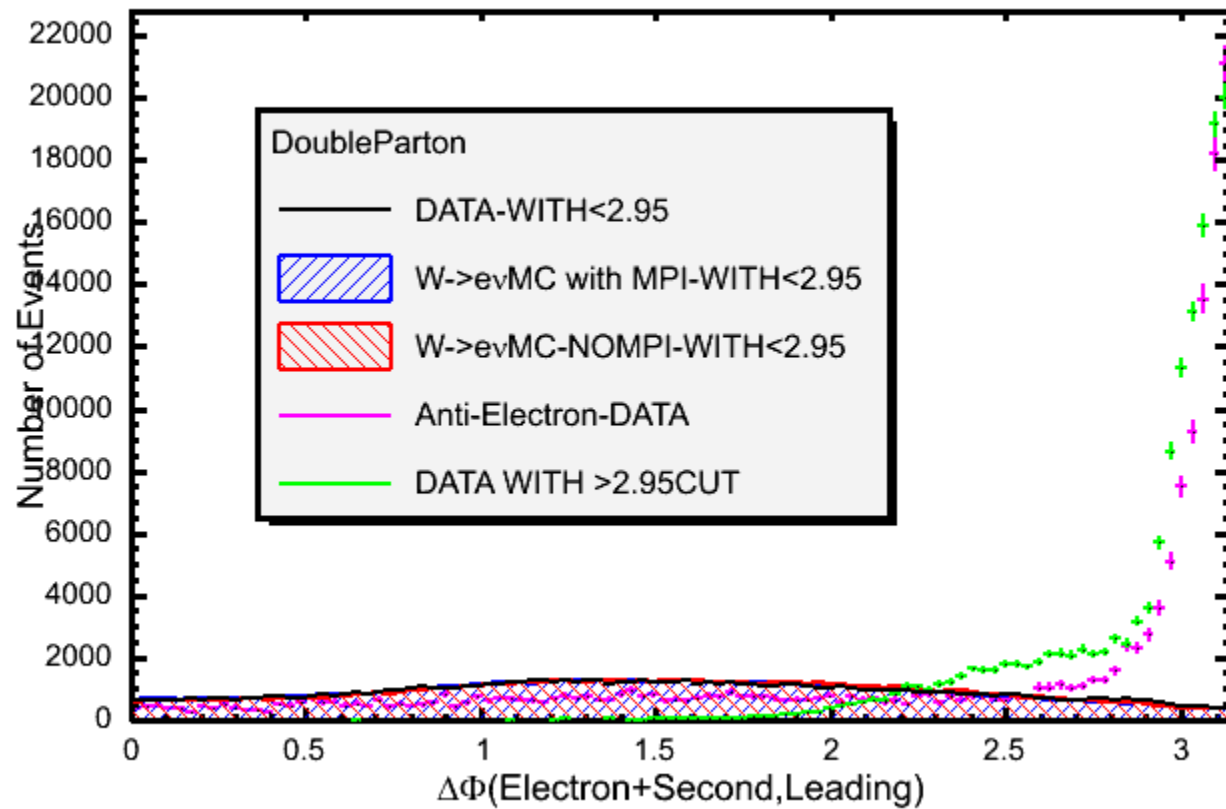
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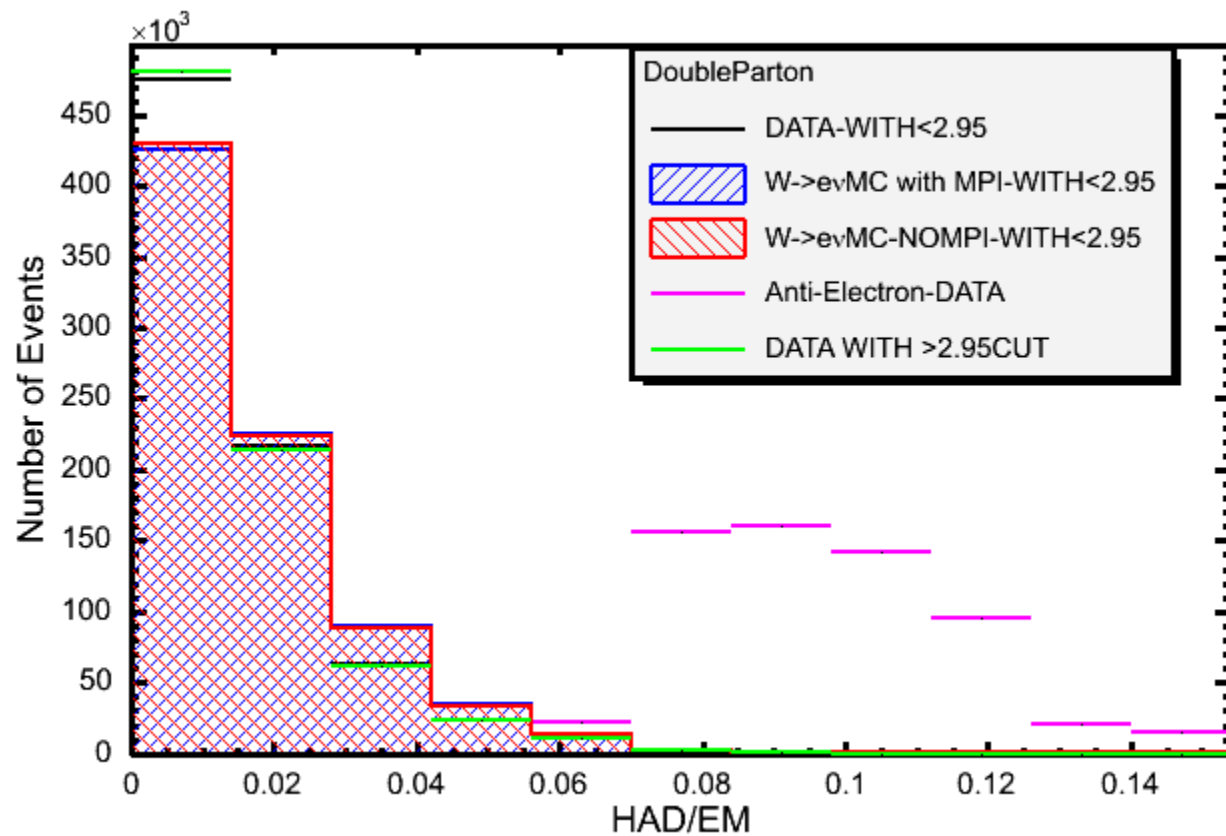
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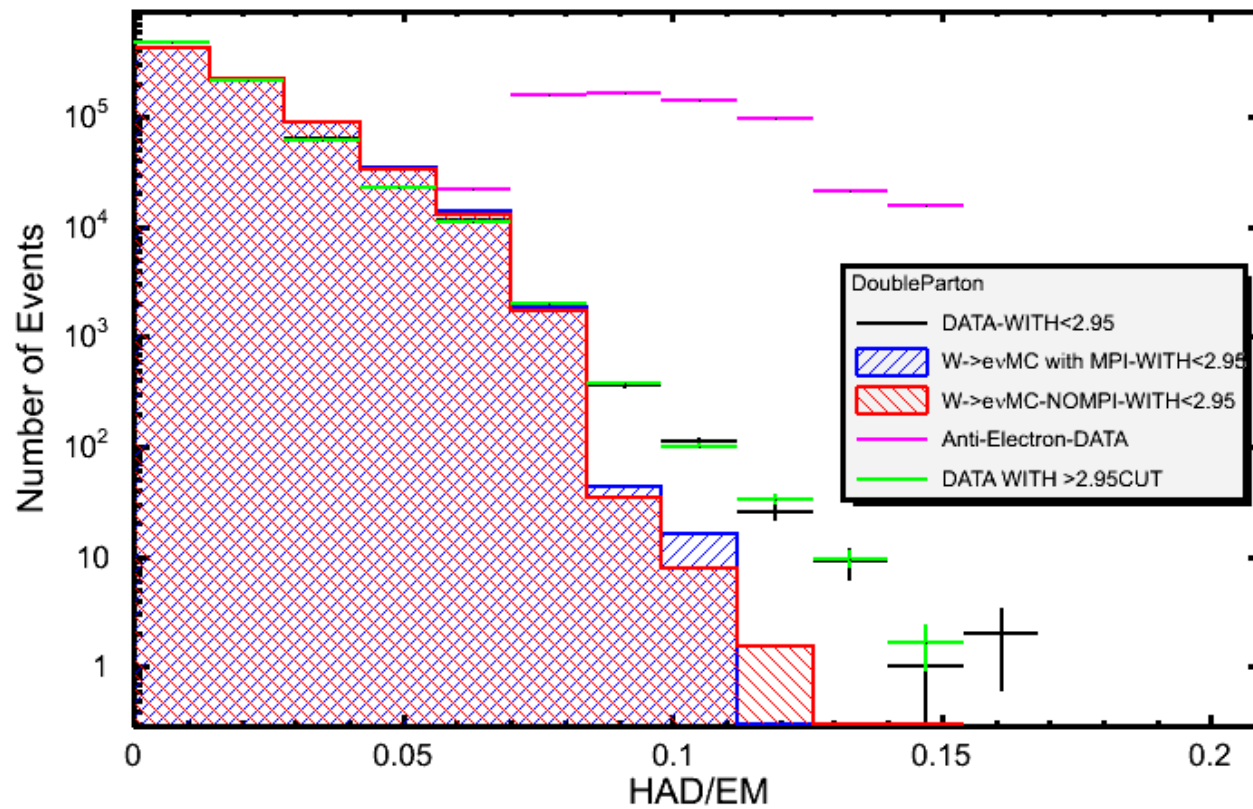
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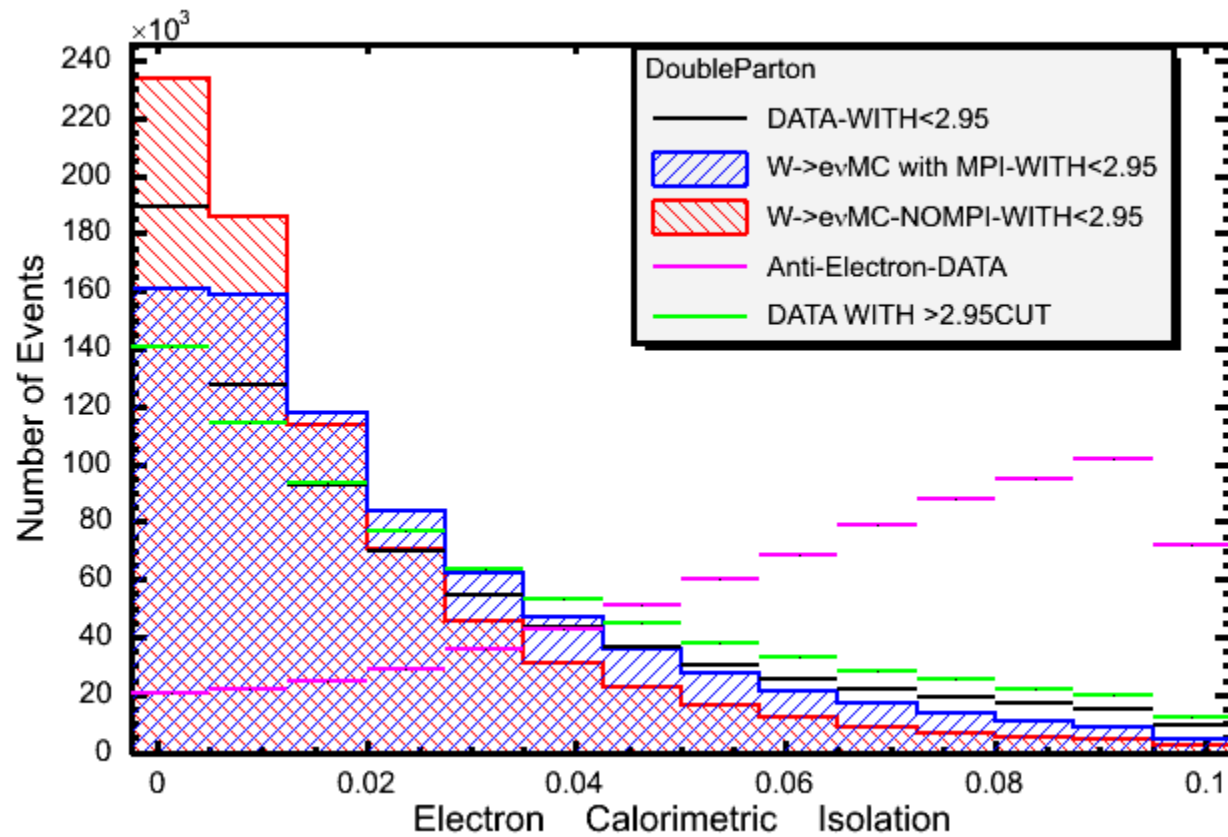
# Till Transverse Mass Cuts



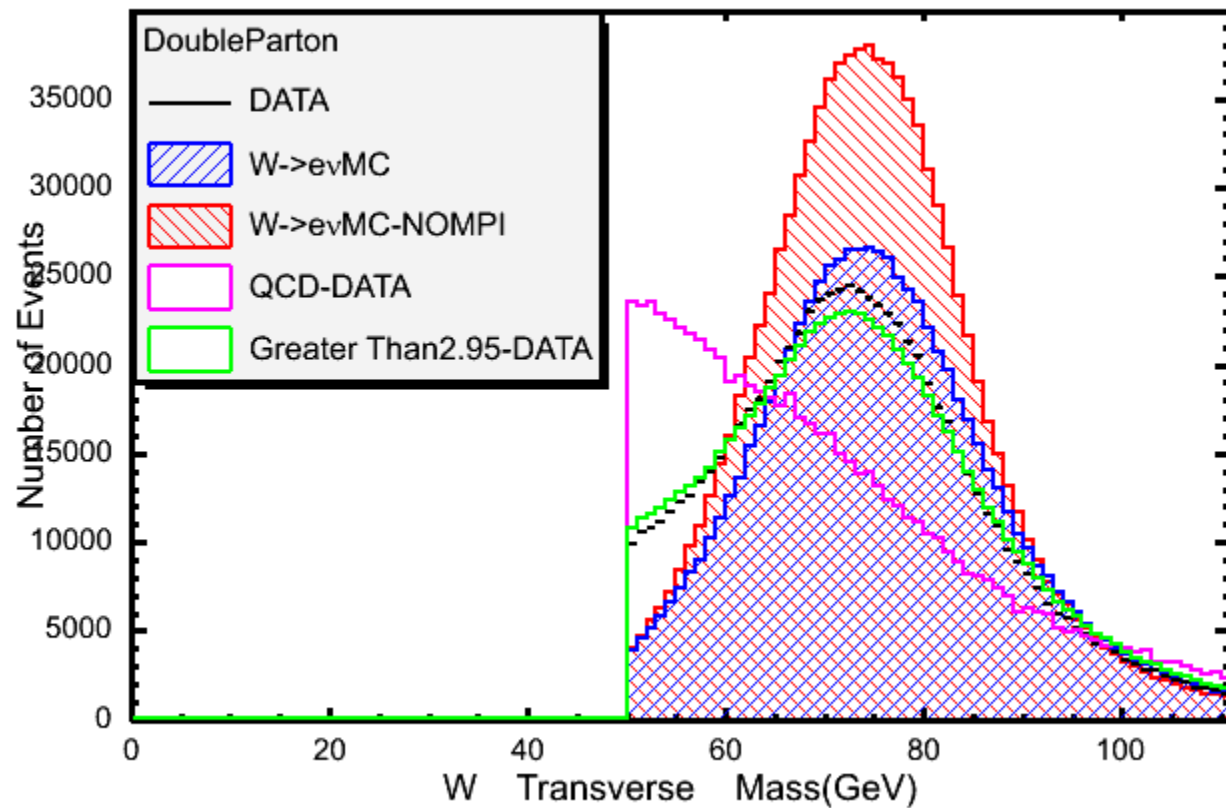
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