

DOUBLE PARTON

[Varsha Ramakrishnan]



Summary From Last Mondays Meeting

2

1. Apply $\Delta\phi(\text{MET}, \text{All-Jets}) > 0.7$ and $\Delta\phi(\text{MET}, \text{Electron}) > 0.7$ as a Baseline cut and look at W/Electron/Jet Variable distributions.
2. Scatter Plots and $\Delta\phi$ after Applying the Vertex Cuts

Tight/W/MET Cuts

3

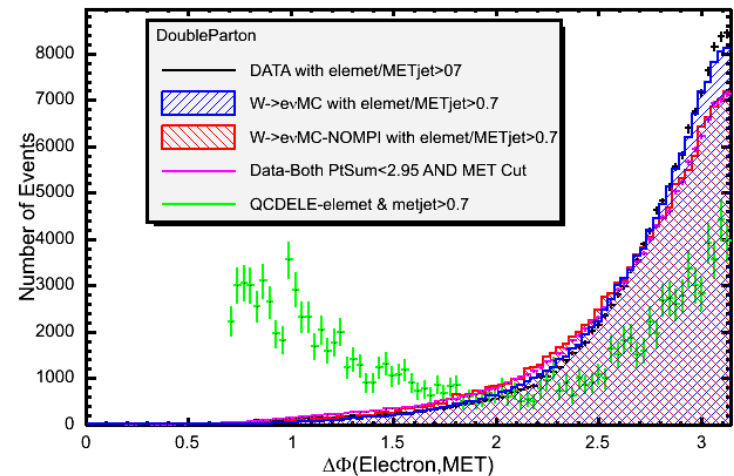
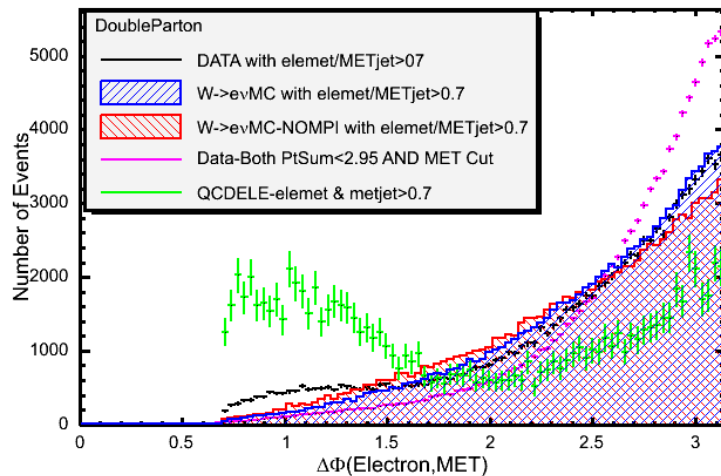
- Tight electron cuts applied to select the Electron from the Ntuple
- Electron-Jet object removed from the Jets in the Ntuple
- Jets with L5 JES corrected **ET>5 GeV and |ETA| <2** selected
- $\Delta R(\text{Electron}, \text{Closest-Jet}) > 0.92(1.3 * \text{radius of cone})$
- $\Delta\phi(\text{MET}, \text{All-Jets}) > 0.7$
- Missing ET corrected for Muons/Jets-Selected
- ONLY ONE Tight-Electron, MET>30 GeV, Transverse Mass>50 GeV
- Atleast TWO Jets (as selected above)
- Above Leading/.Second Jet need to have atleast TWO TRACKS in them

W + ONLY TWO JETS

4

W Transverse Mass [50,70]

W Transverse Mass (70,120]



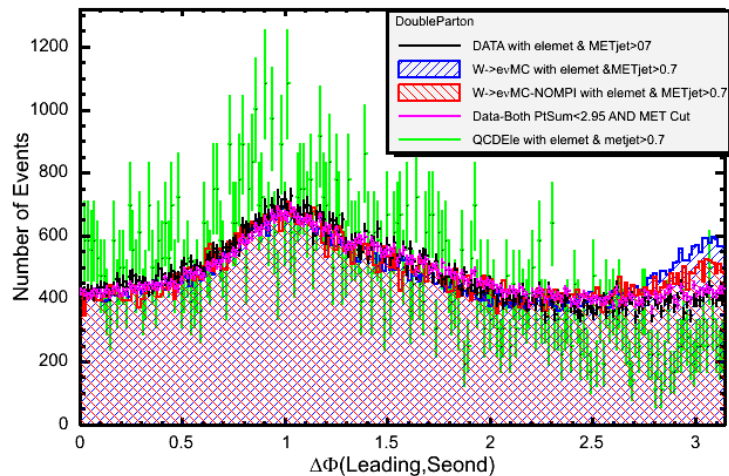
Electron/MET/JET-Dphi > 0.7

11/14/2011

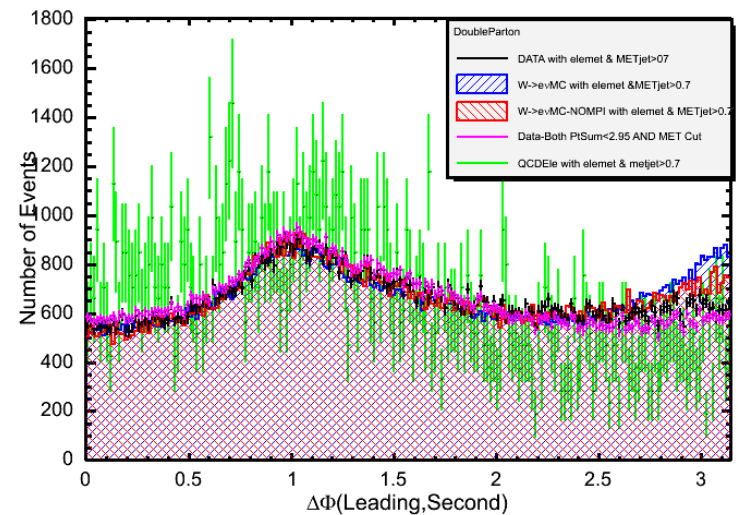
W + ONLY TWO JETS

5

W Transverse Mass [50,70]



W Transverse Mass (70,120]



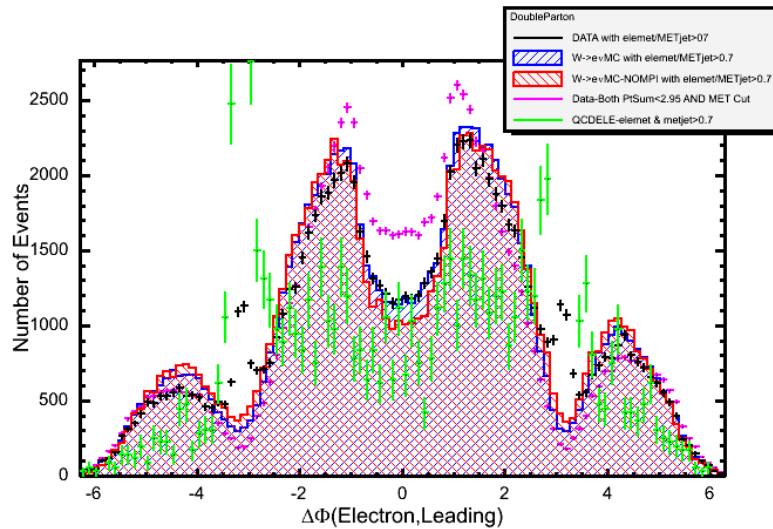
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11/14/2011

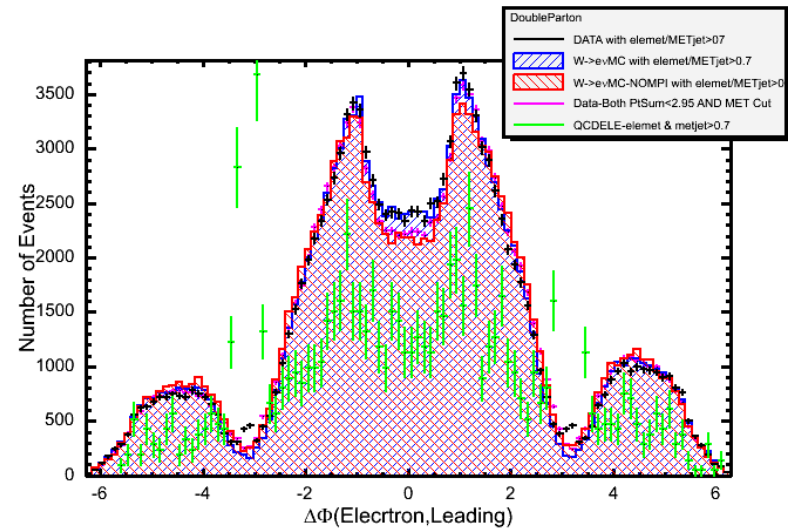
W + ONLY TWO JETS

6

W Transverse Mass [50,70]



W Transverse Mass (70,120]



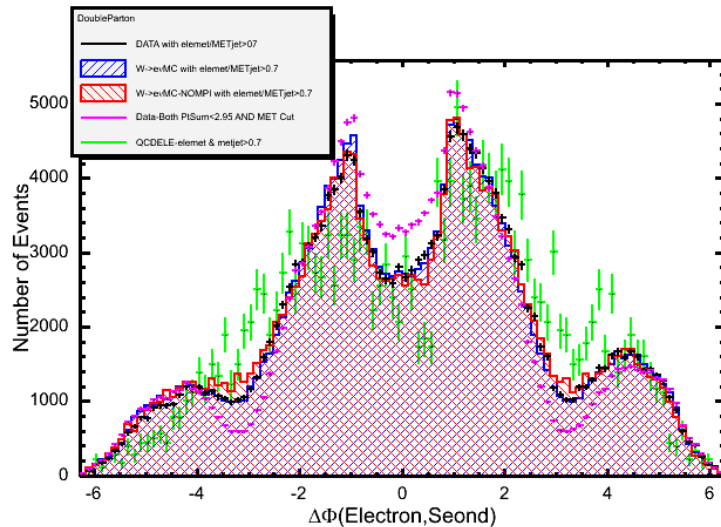
Electron/MET/JET-Dphi>0.7

11/14/2011

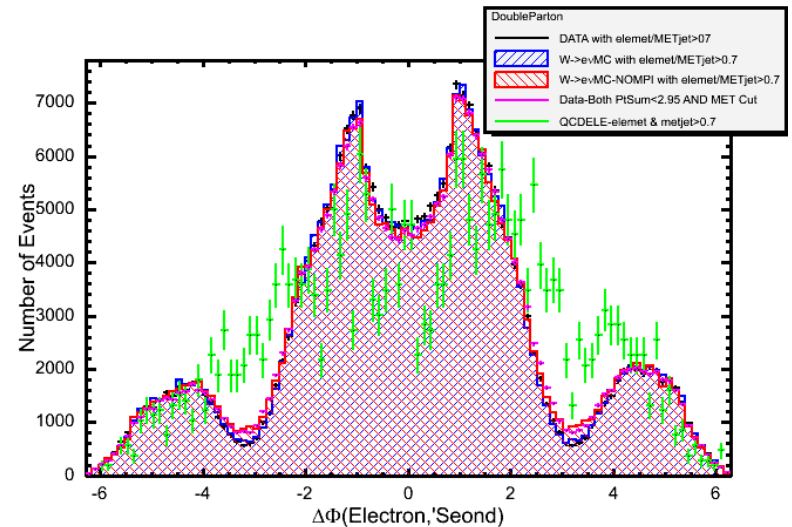
W + ONLY TWO JETS

7

W Transverse Mass [50,70]



W Transverse Mass (70,120]



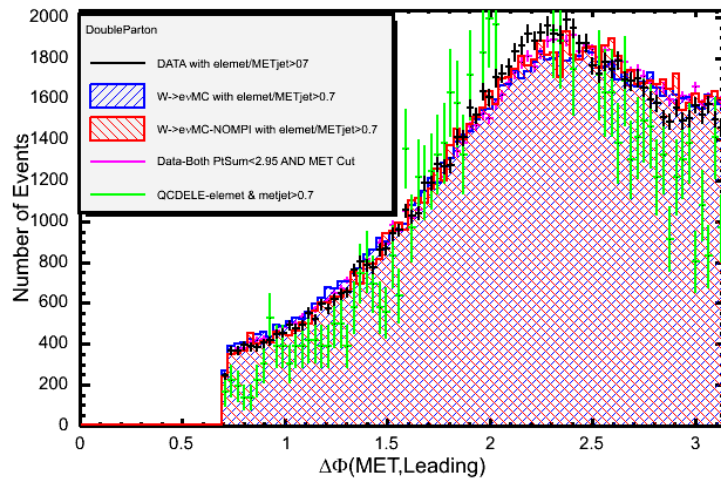
Electron/MET/JET-Dphi>0.7

11/14/2011

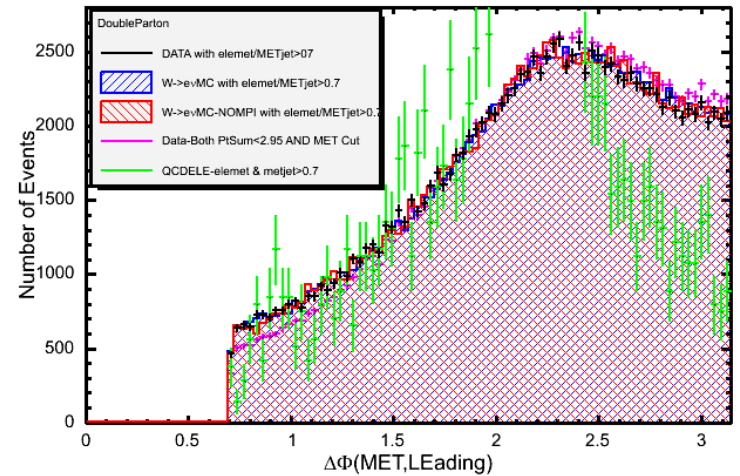
W + ONLY TWO JETS

8

W Transverse Mass [50,70]



W Transverse Mass (70,120]



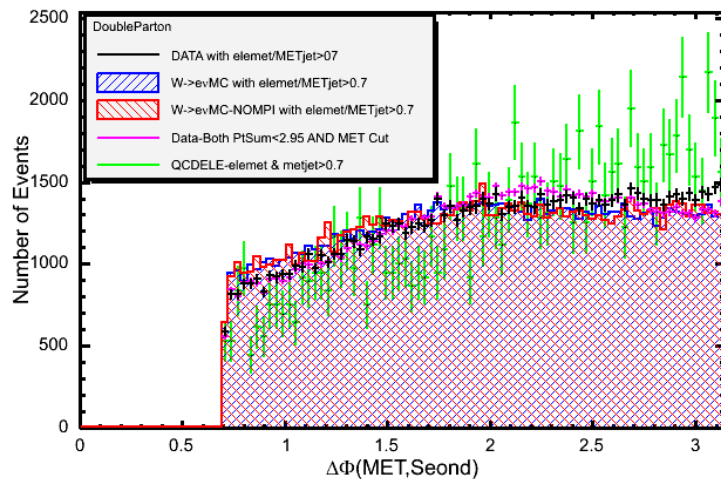
Electron/MET/JET-Dphi>0.7

11/14/2011

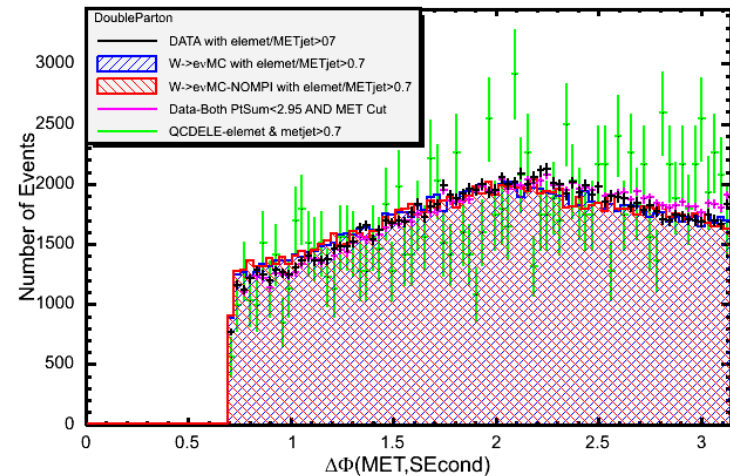
W + ONLY TWO JETS

9

W Transverse Mass [50,70]



W Transverse Mass (70,120]



Electron/MET/JET-Dphi>0.7

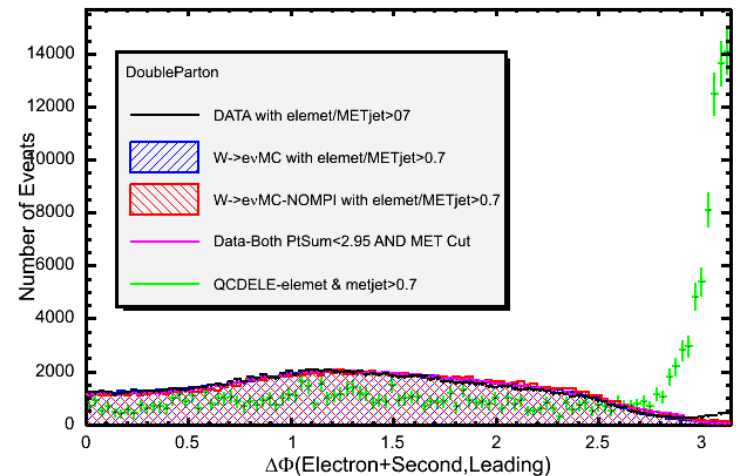
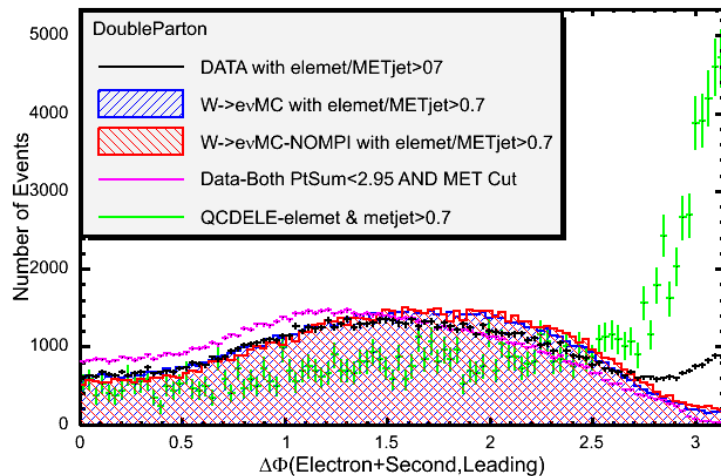
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W + ONLY TWO JETS

10

W Transverse Mass [50,70]

W Transverse Mass (70,120]



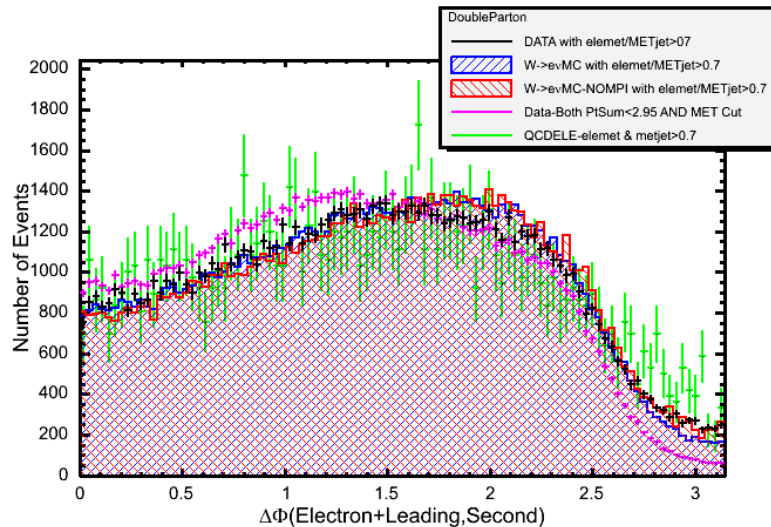
Electron/MET/JET-Dphi > 0.7

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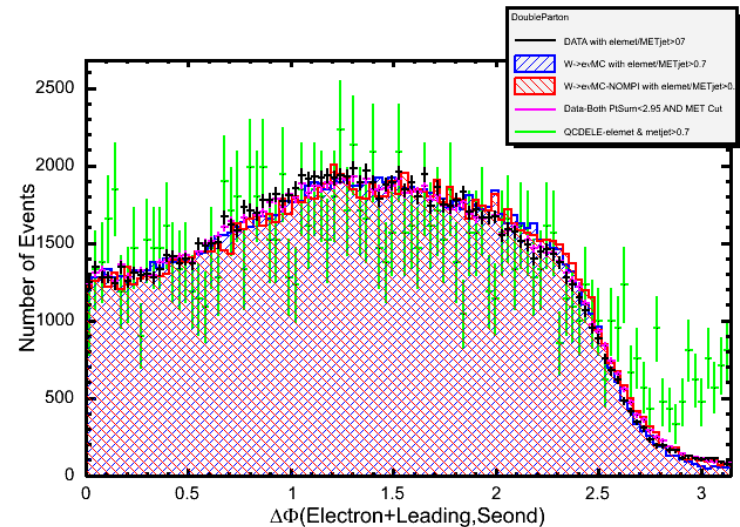
W + ONLY TWO JETS

11

W Transverse Mass [50,70]



W Transverse Mass (70,120]



Electron/MET/JET-Dphi > 0.7

11/14/2011