Double Parton

[Varsha Ramakrishnan]

Summary From Last Mondays Meeting

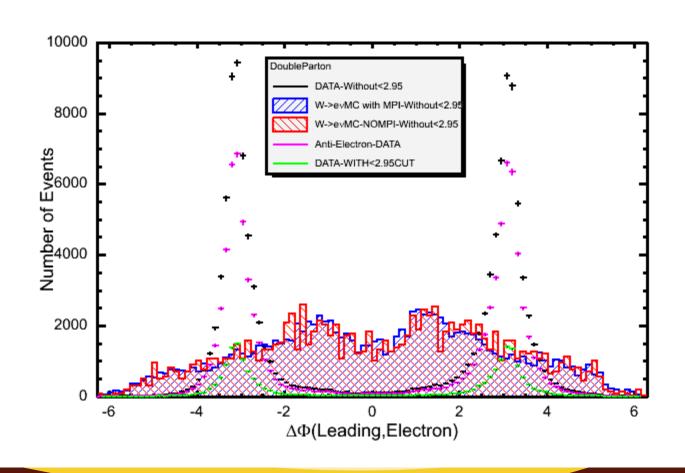
- 1. Electron/Jet Varibles Plots WITHOUT the Δφ(Tight-Electron,∑Jet PT),2.95
- 2. Same set of Plots as above for comparison purposes with the "Anti-Electron" Sample
- 3. Look at the Transverse Mass Plots WITH Δφ(Tight-Electron,∑Jet PT),2.95 sample with Tight-Electrons for ONLY TWO JETS to see if tthere is better agreement between Data/MC at Low Mass ~<60GeV
- 4. Separate the $\Delta \phi$ (Electron, Leading) into TWO Regions of >2.2 radians and <2.2 radians, Look at all the of the Plots show above for both regions
- 5. For ONLY TWO Jets and $|\Delta Z(Electrom, Leading)| > 0.04$ cm // $|\Delta Z(Electrom, Second)| > 0.04$ cm // $|\Delta Z(Leading, Second)| < 0.04$ cm

For the sample WITH Δφ(Tight-Electron,∑Jet PT),2.95

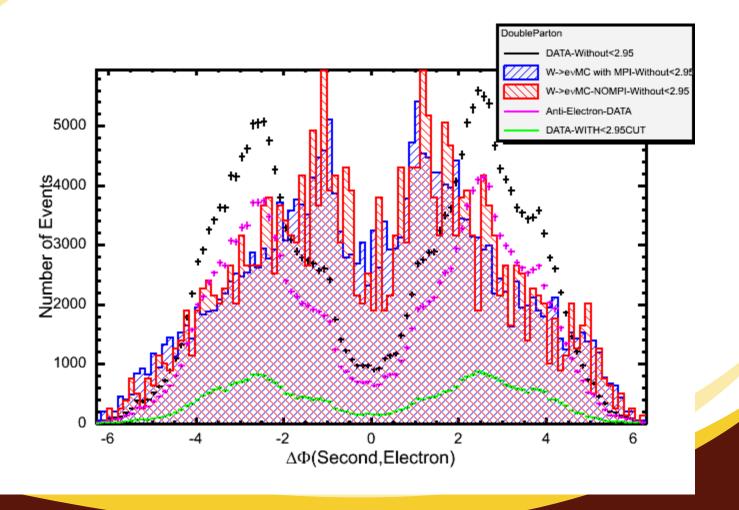
Tight/W/MET Cuts

- ✓ Tight electron cuts applied to select the Electron from the Ntuple
- Electron-Jet object removed form the Jets in the Ntuple
- Jets with L5 JES corrected <u>ET>5 GeV and |ETA| <2</u> selected
- ΔR(Electron, Closest-Jet)>0.92(1.3*radius of cone)
- Δφ(Tight-Electron,∑Jet ET)<2.95
- 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 2 Jets



W+Only 2 Jets



ΔZ Tight Electron Selection Cut | ΔZ|≤3 cm

