

ΔZ AND $\Delta\phi$ Plots for $W+\geq 3$ Jets

[Varsha Ramakrishnan]

Today/Summary From Last Mondays Meeting

TODAY:

- $|\Delta Z(\text{Electron}, \text{Leading})| > 0.04 \text{ cm}$ AND $|\Delta Z(\text{electron}, \text{Second})| > 0.04 \text{ cm}$ AND Number of Jets ≥ 3

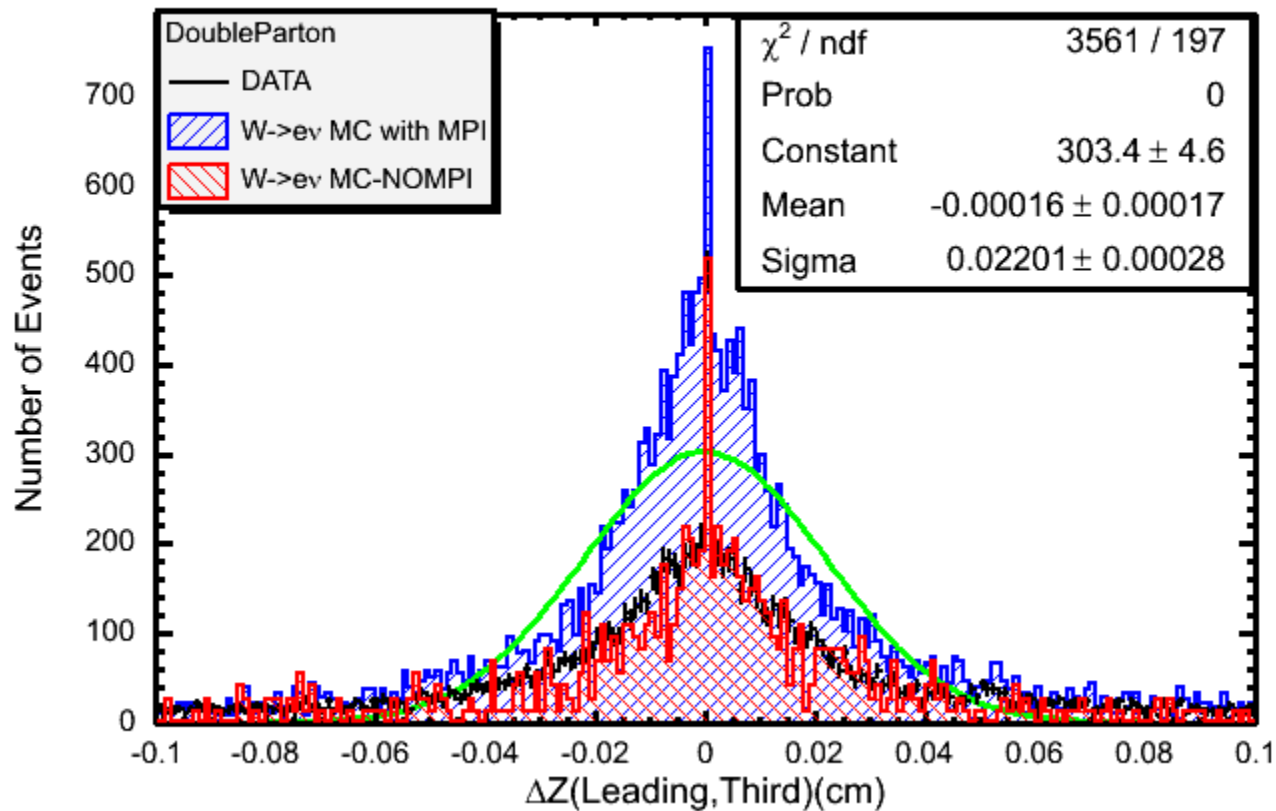
RUNNING IN CAF:

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

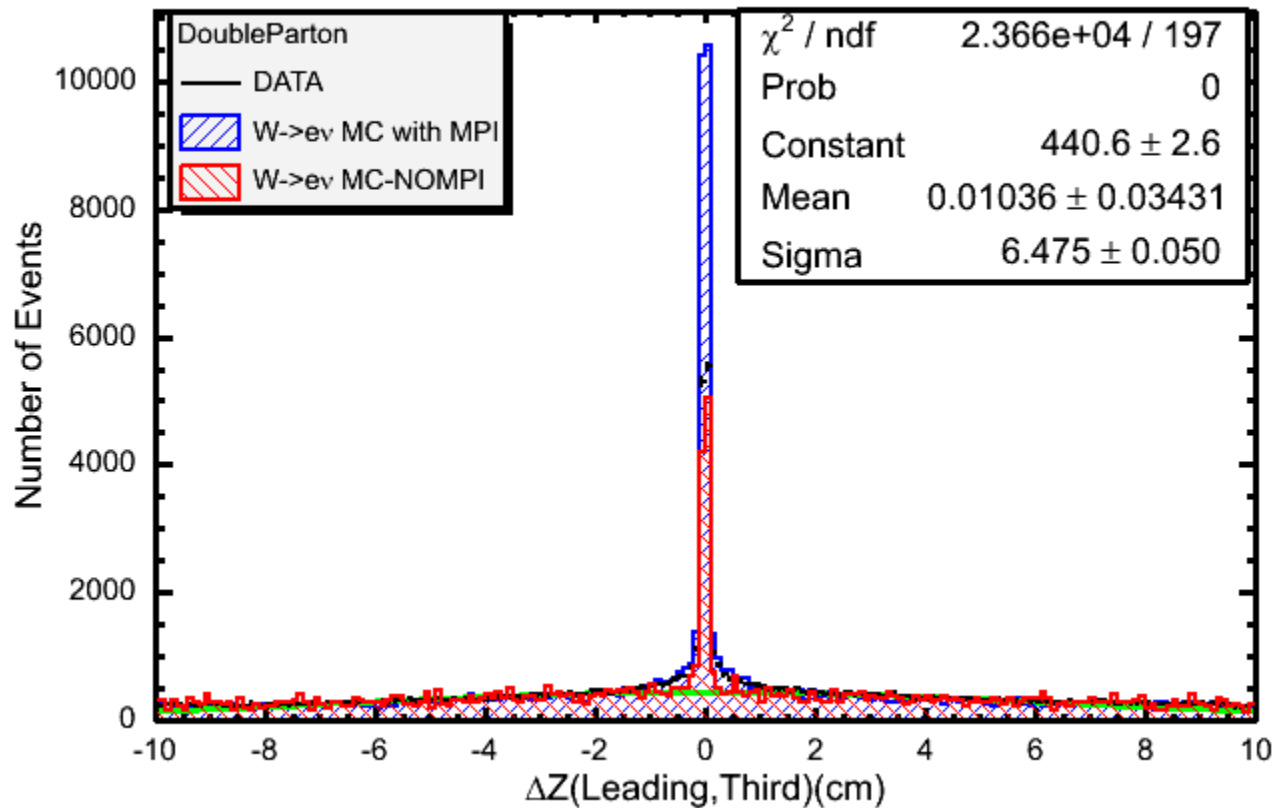
Tight/W/MET Cuts

- 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

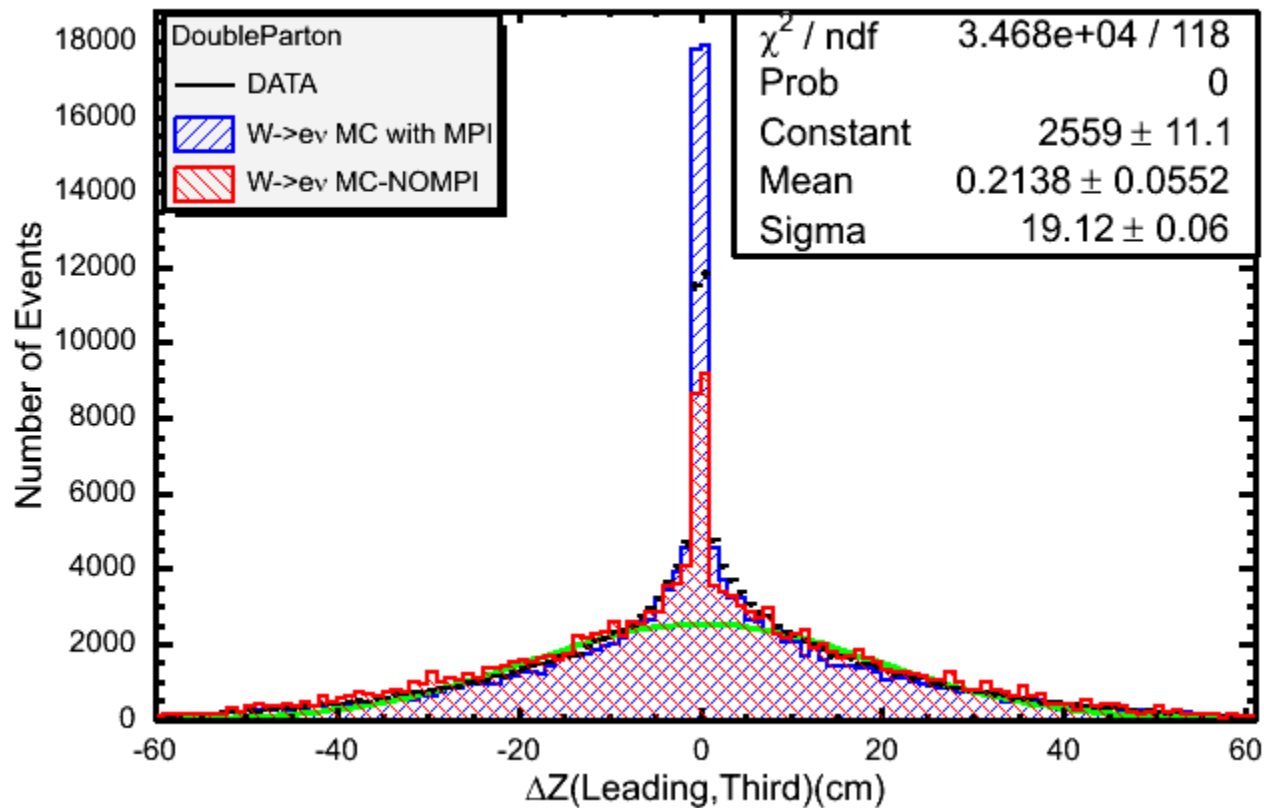
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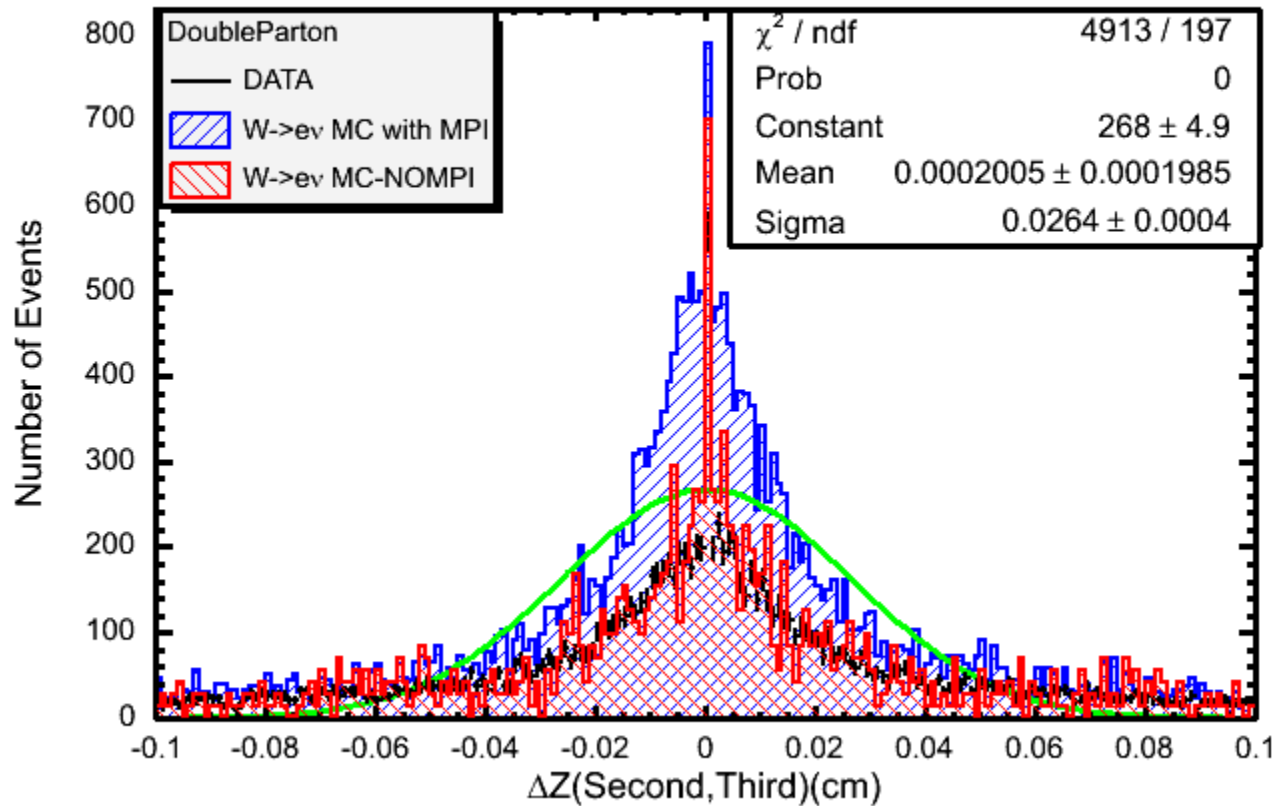
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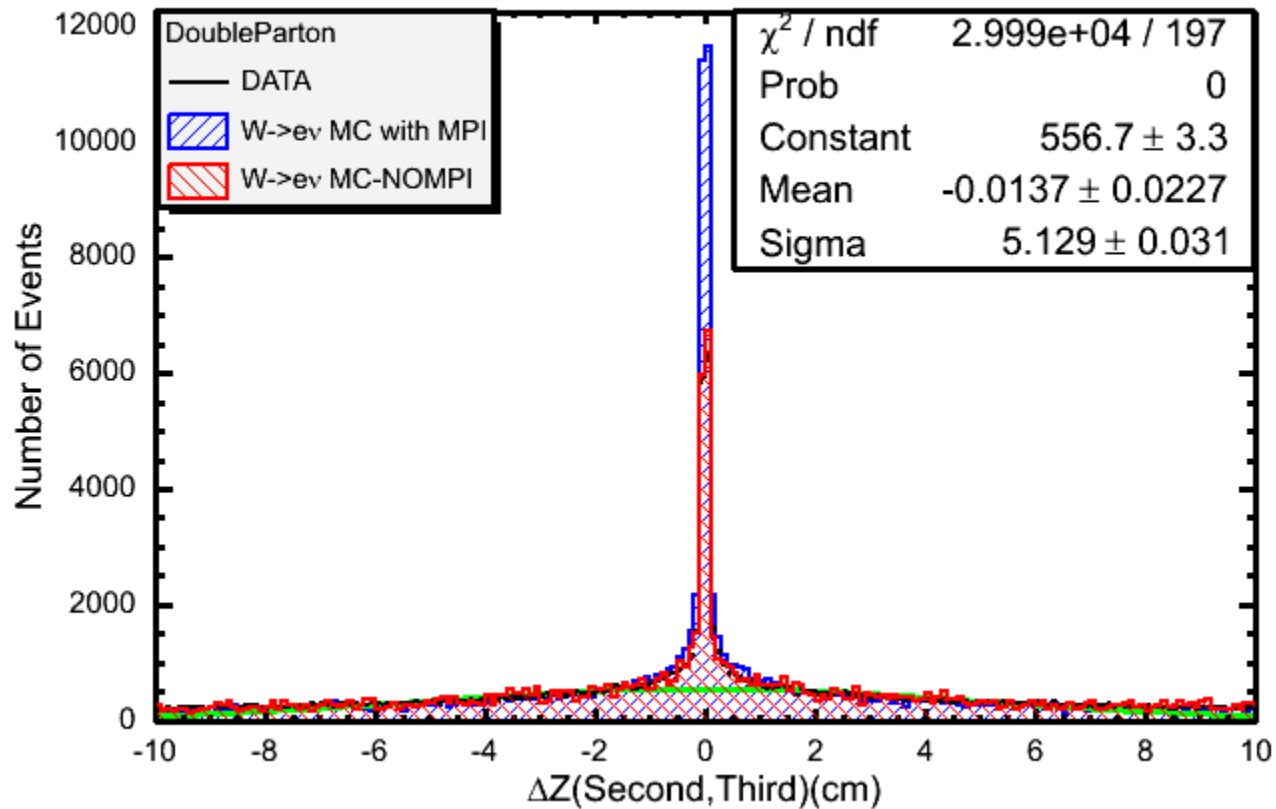
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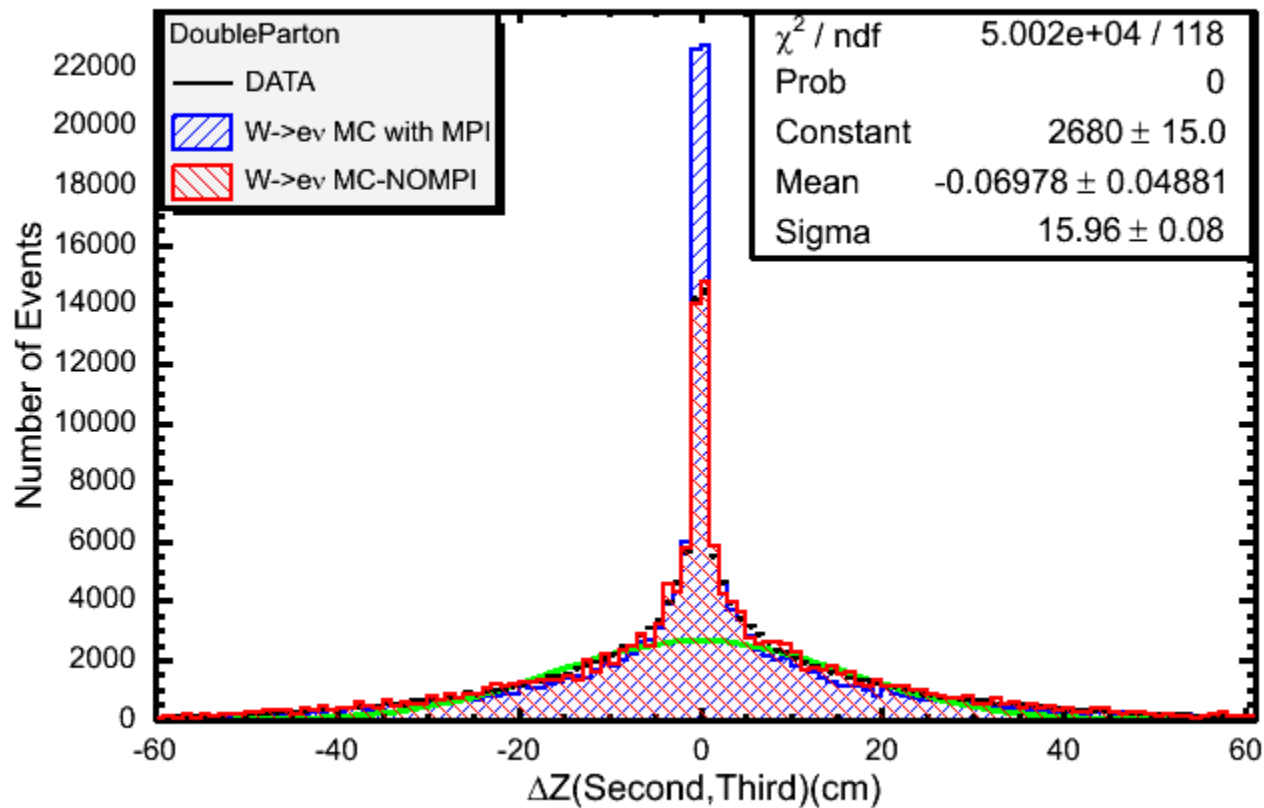
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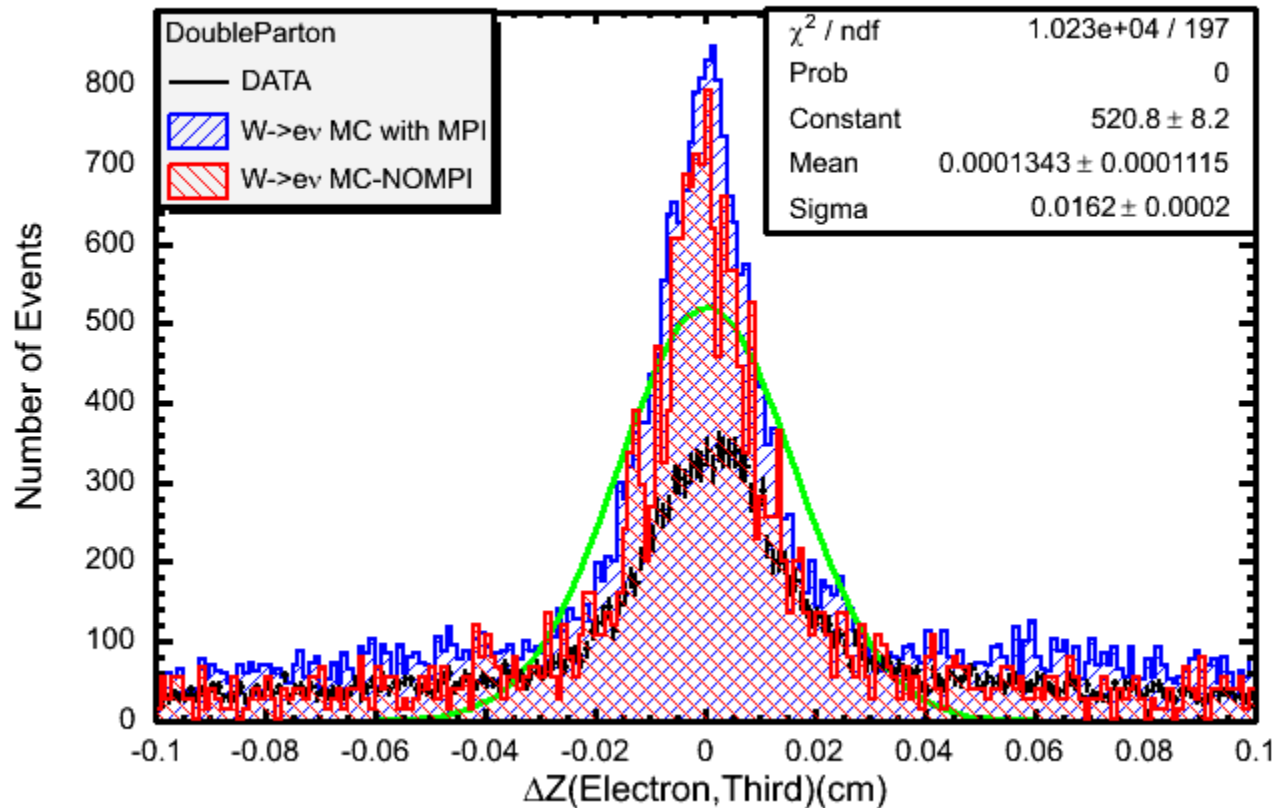
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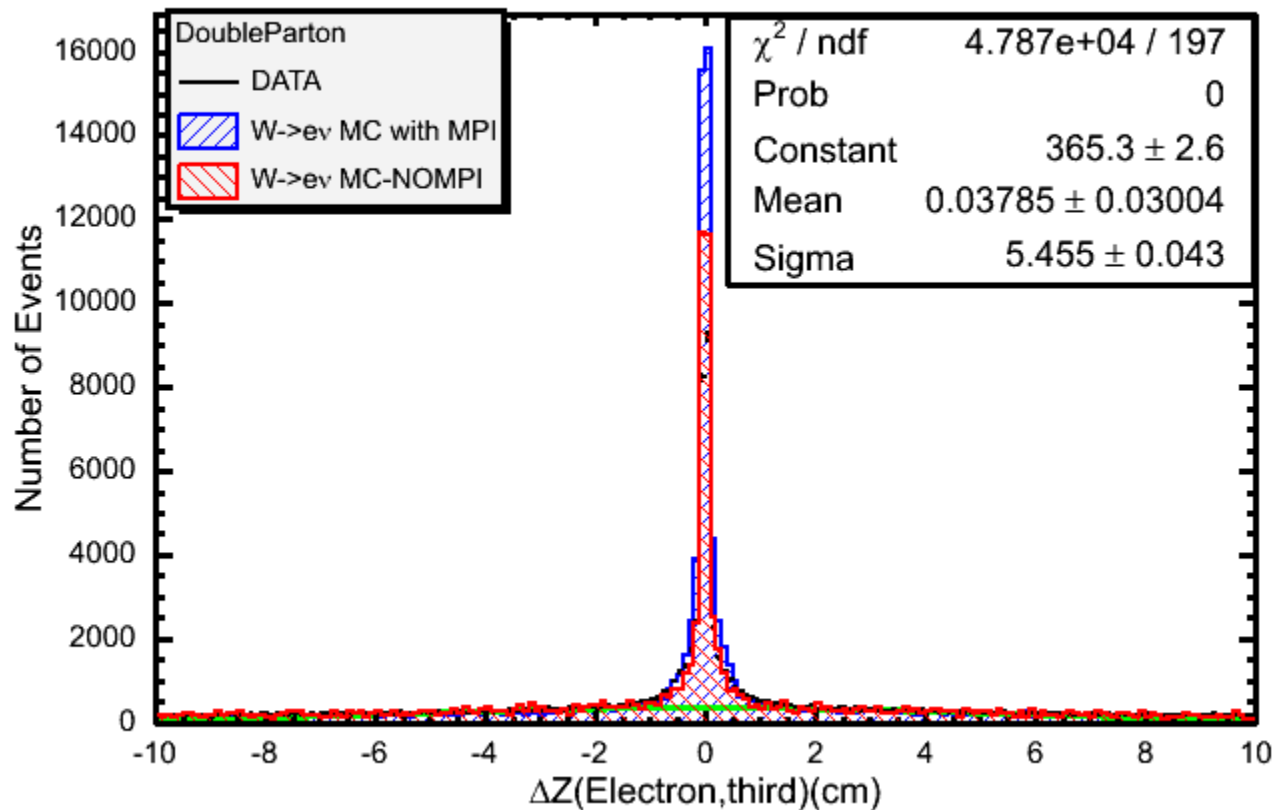
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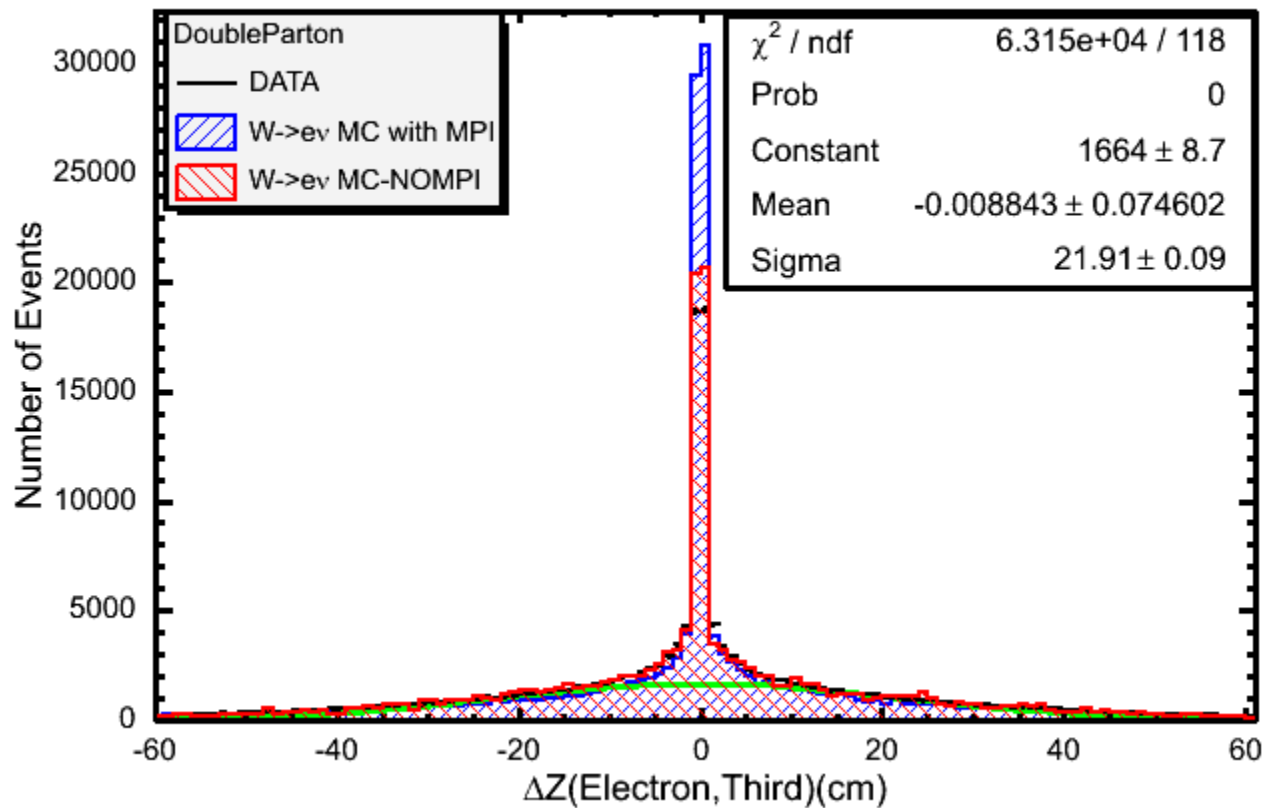
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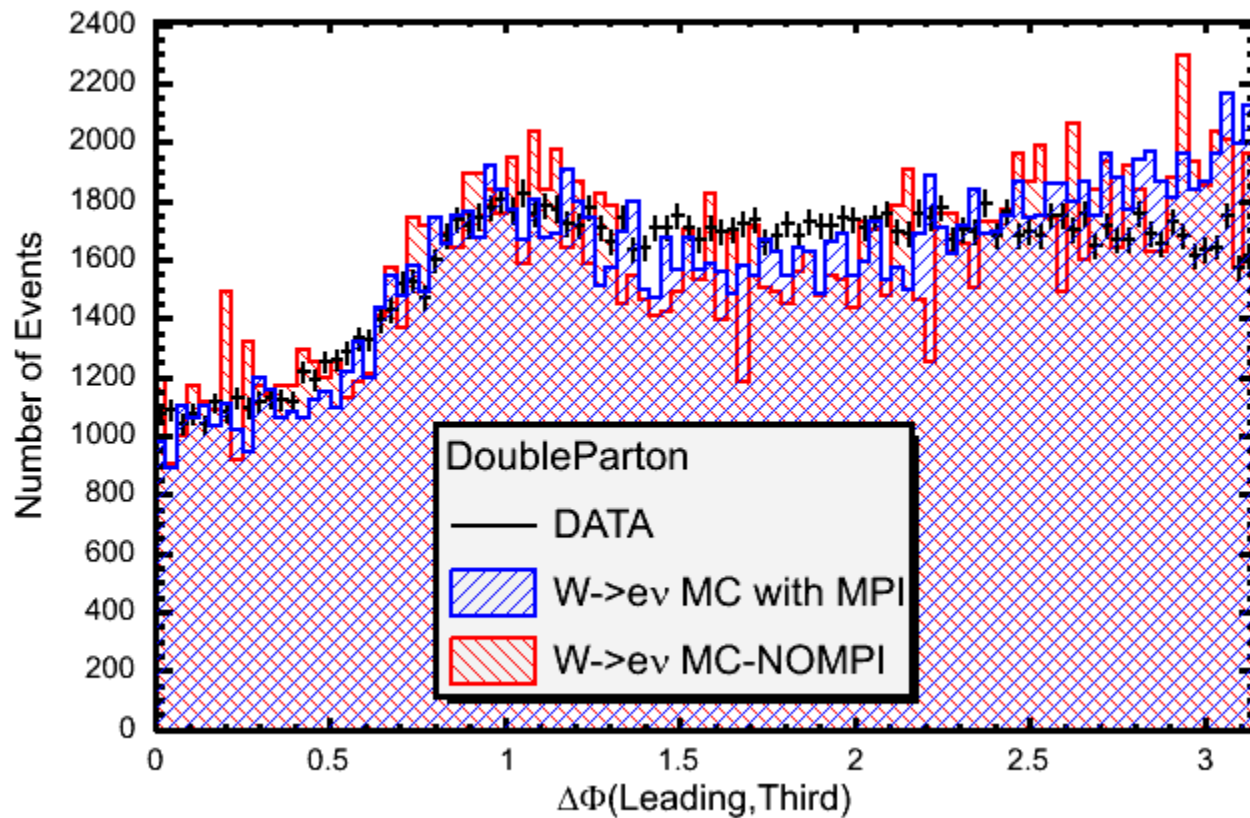
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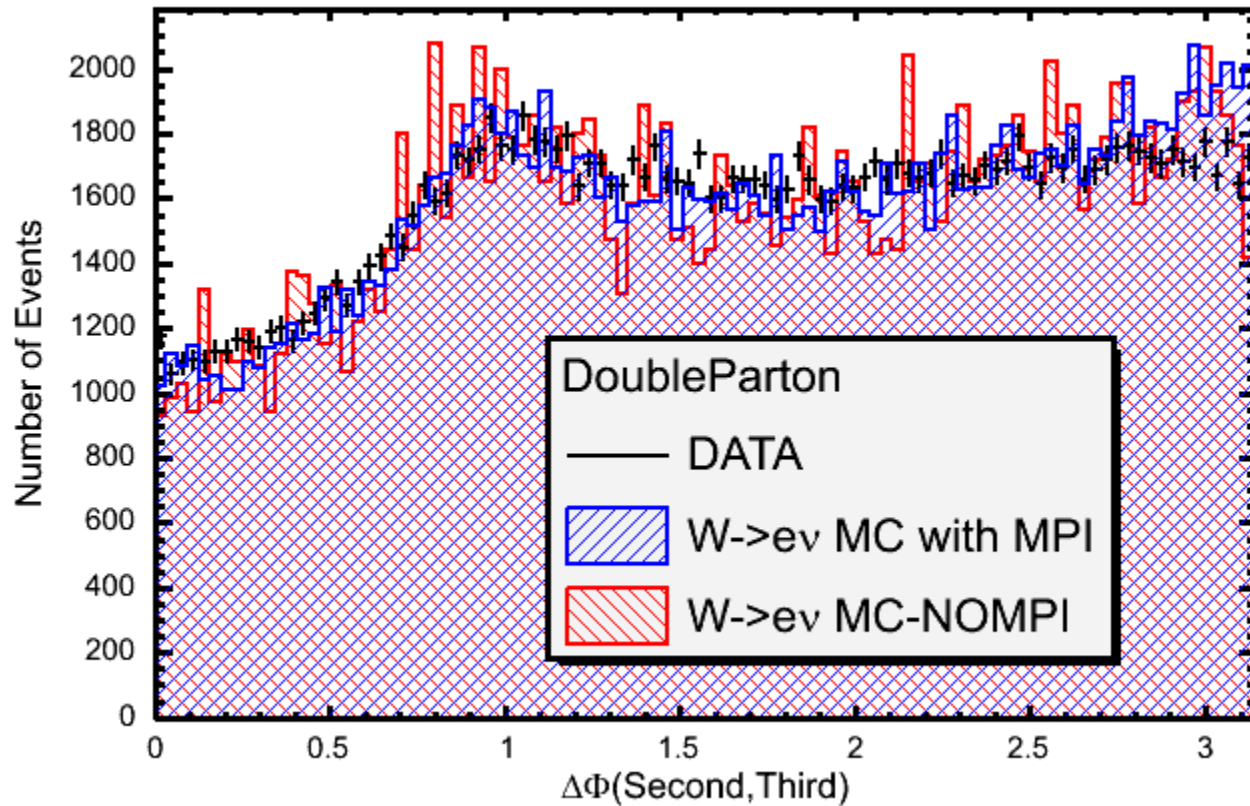
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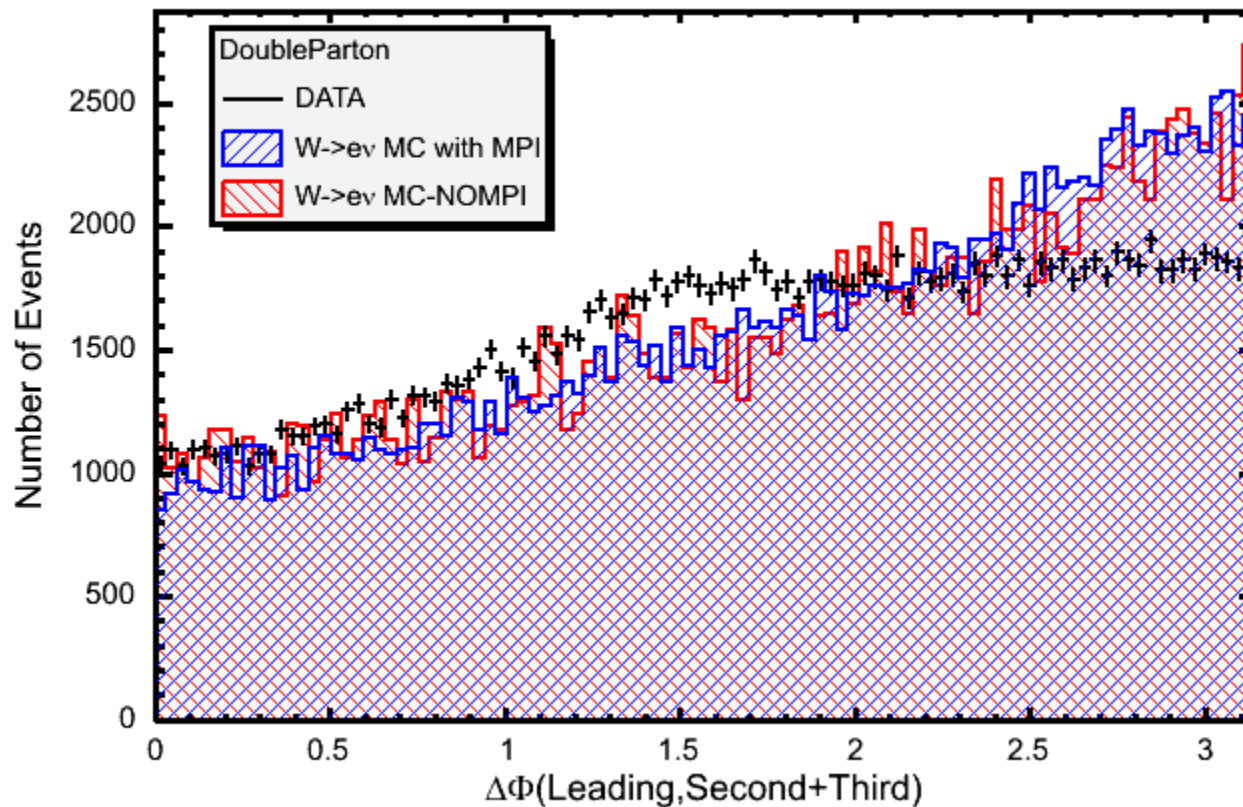
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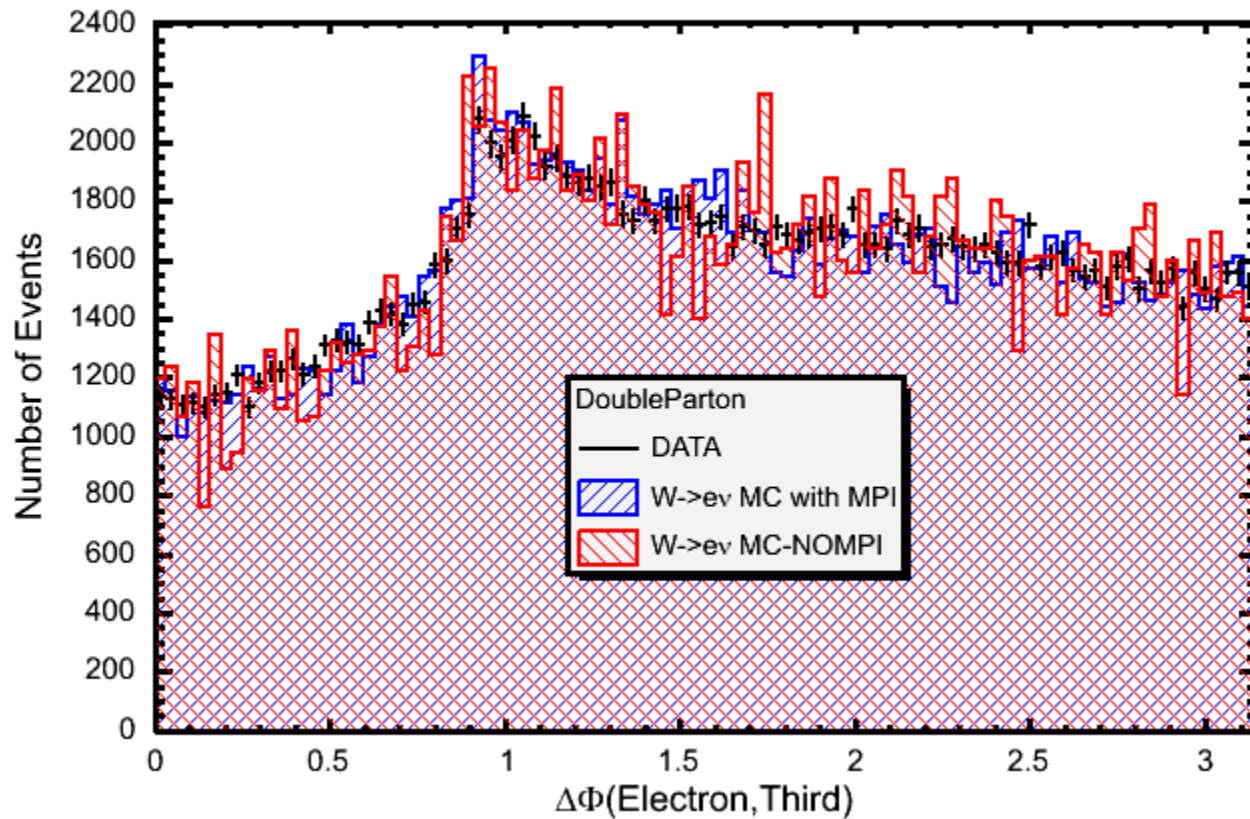
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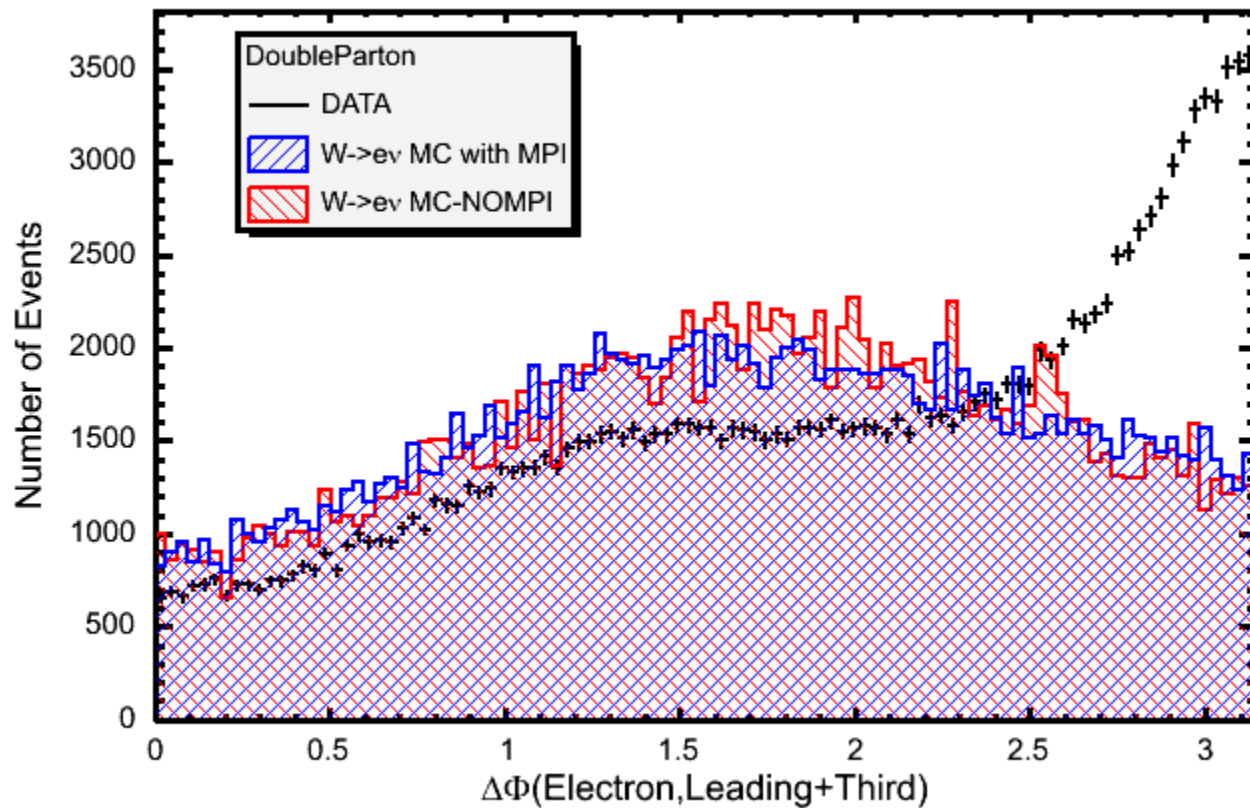
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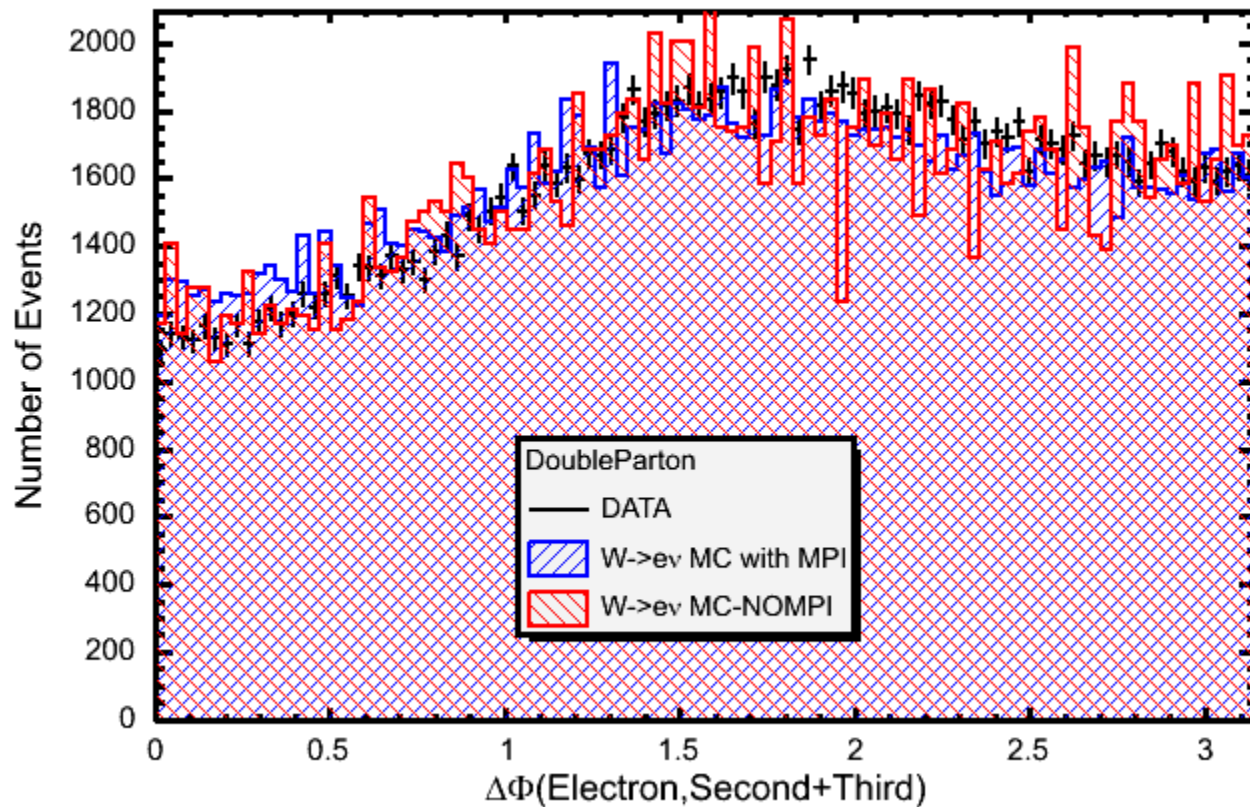
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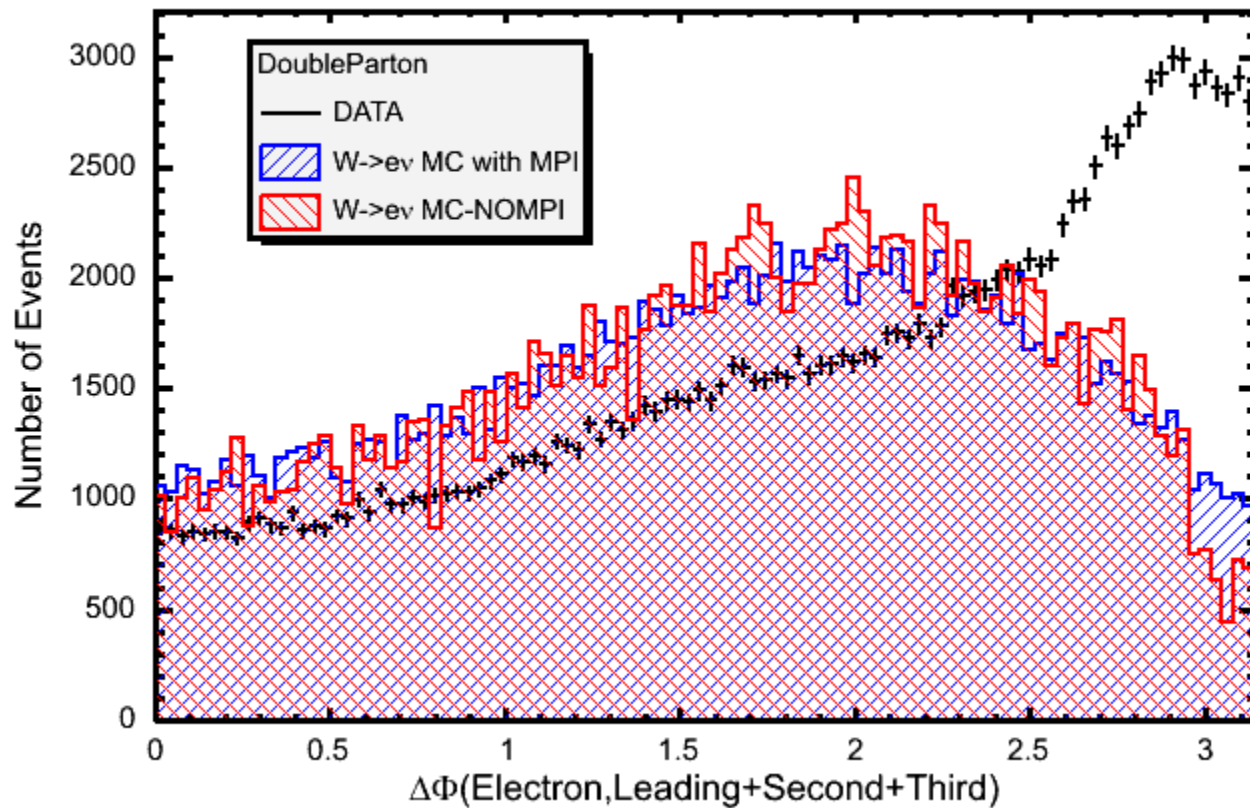
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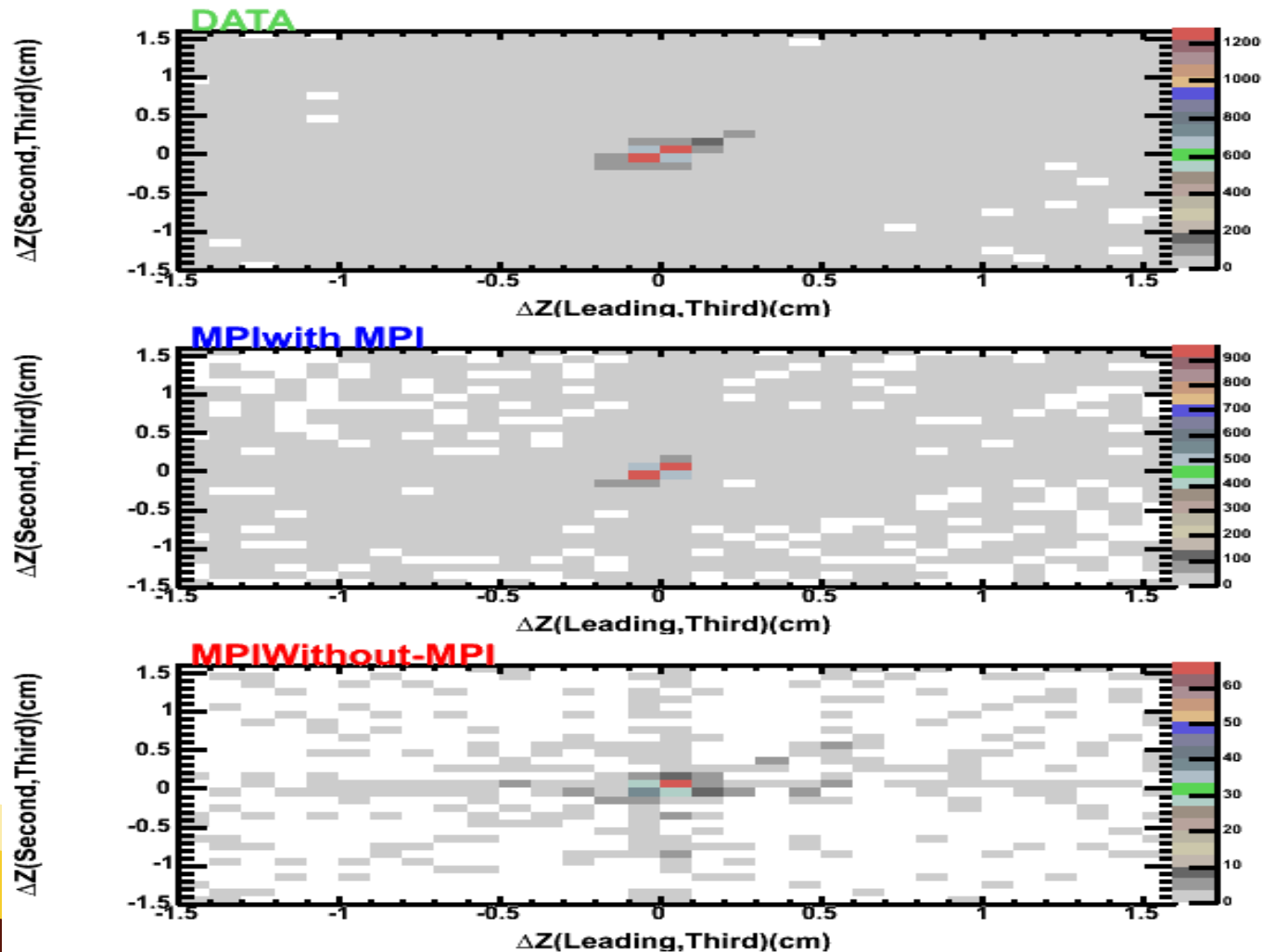
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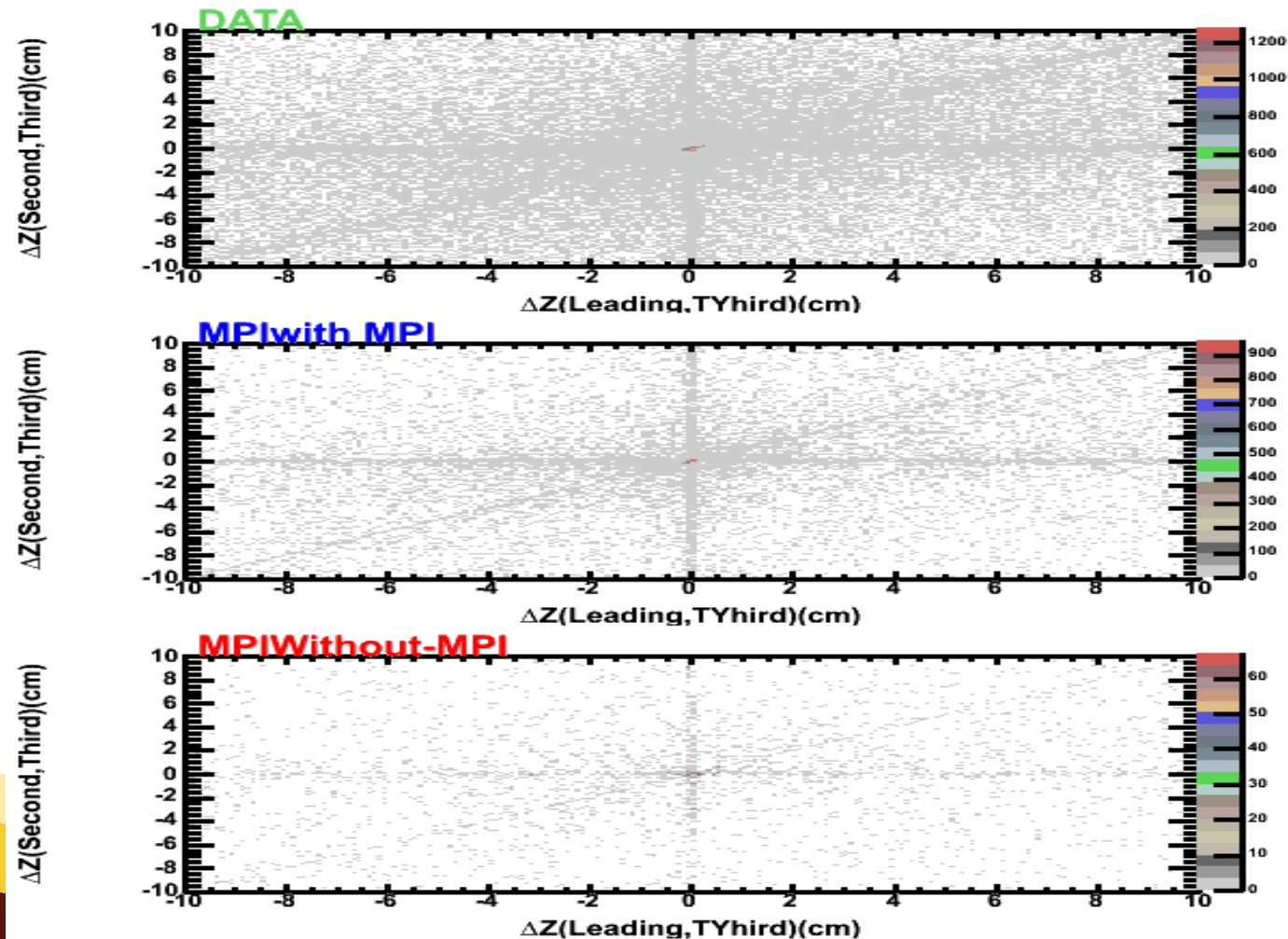
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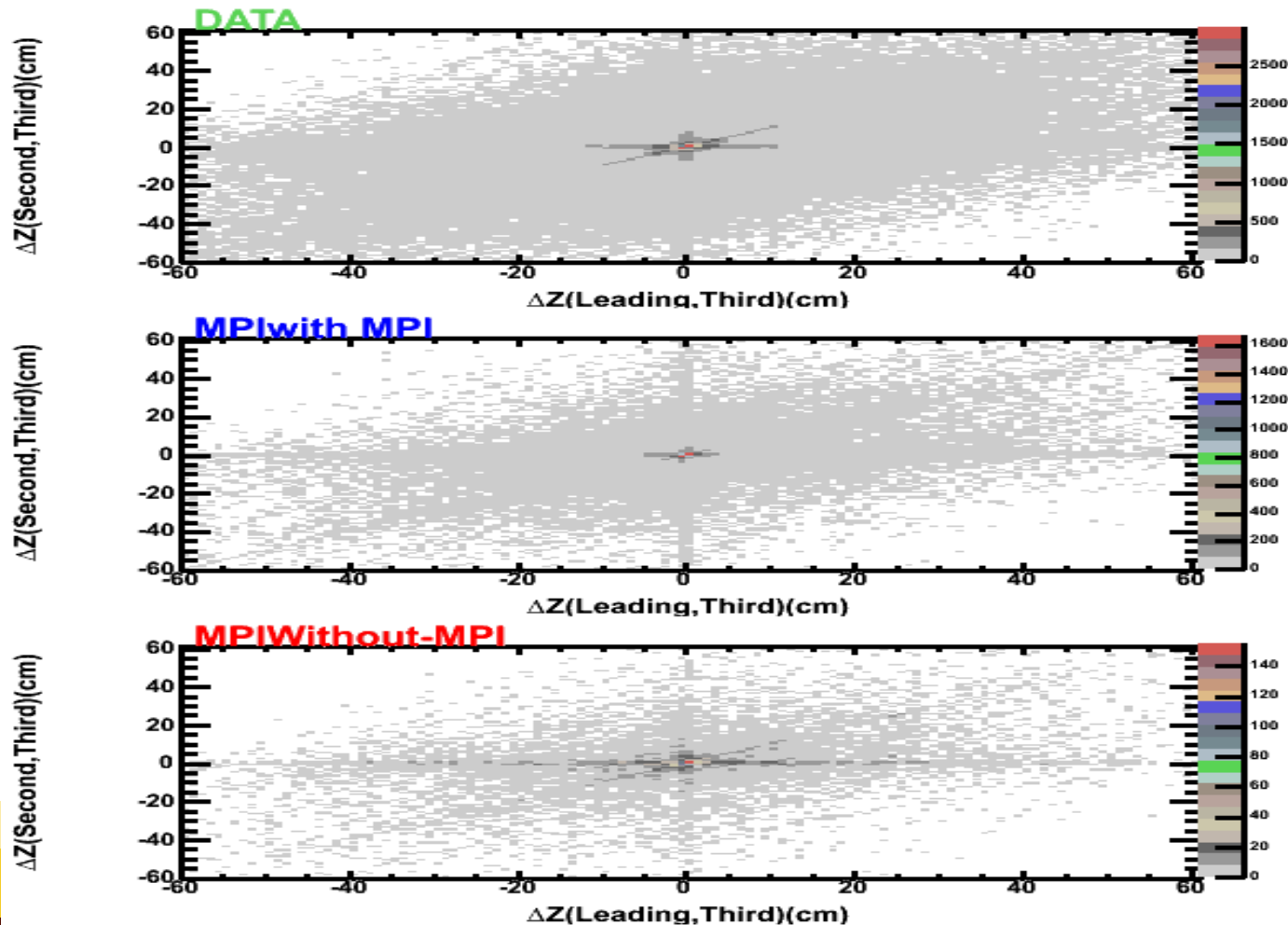
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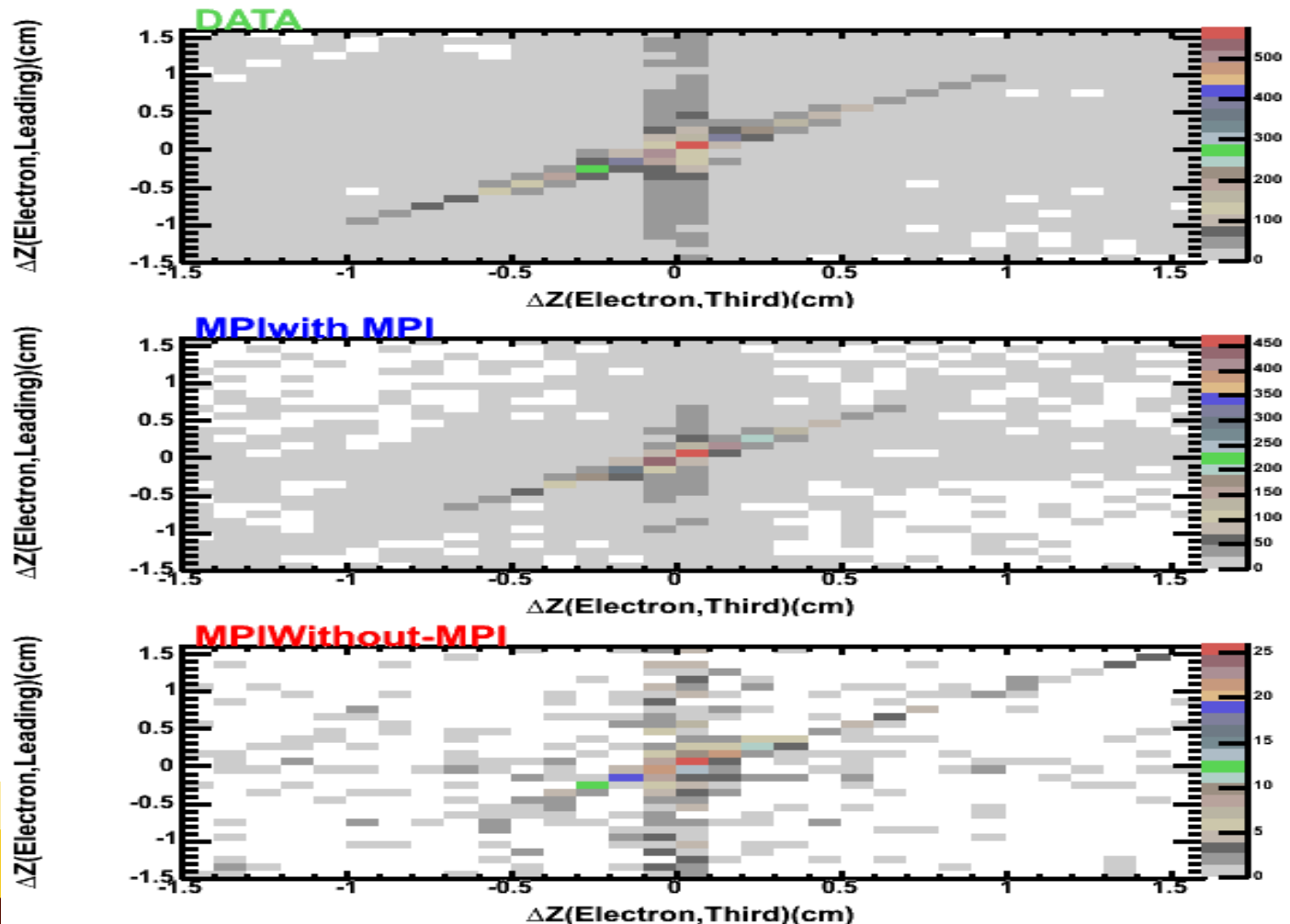
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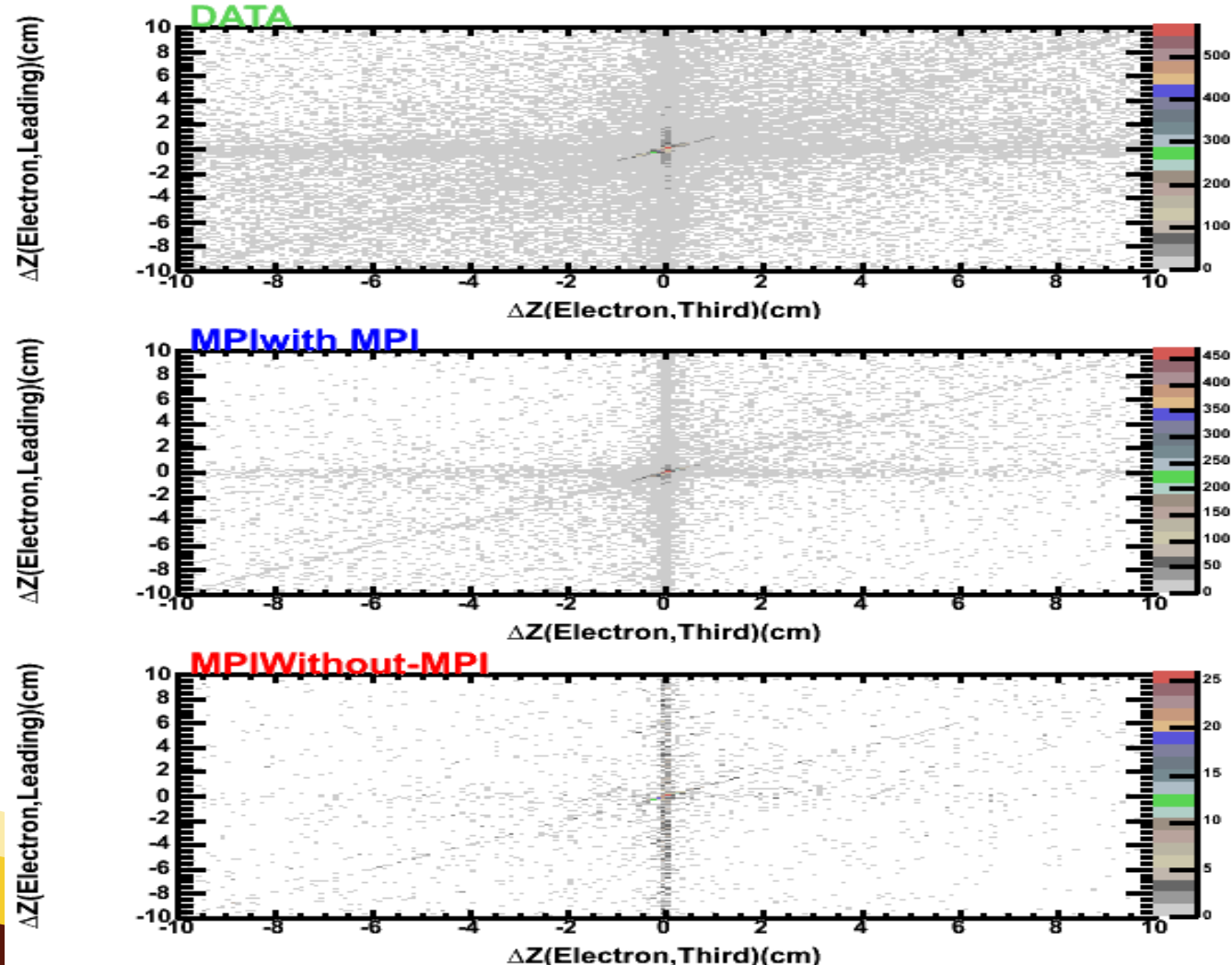
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