

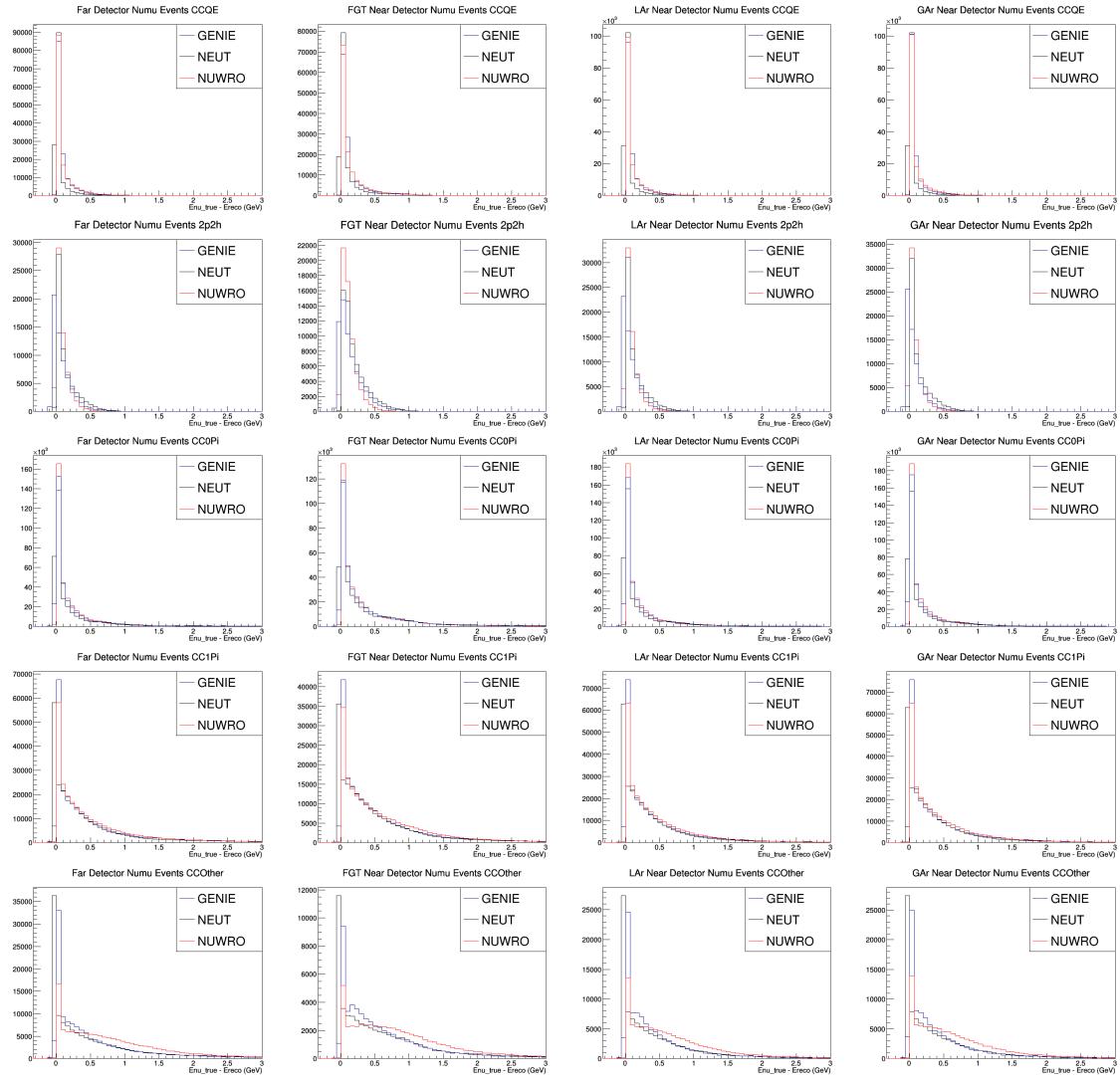
Current Status and Future Progress of DUNE ND studies

Jake Calcutt¹, Joshua Hignight¹, and Kendall Mahn¹

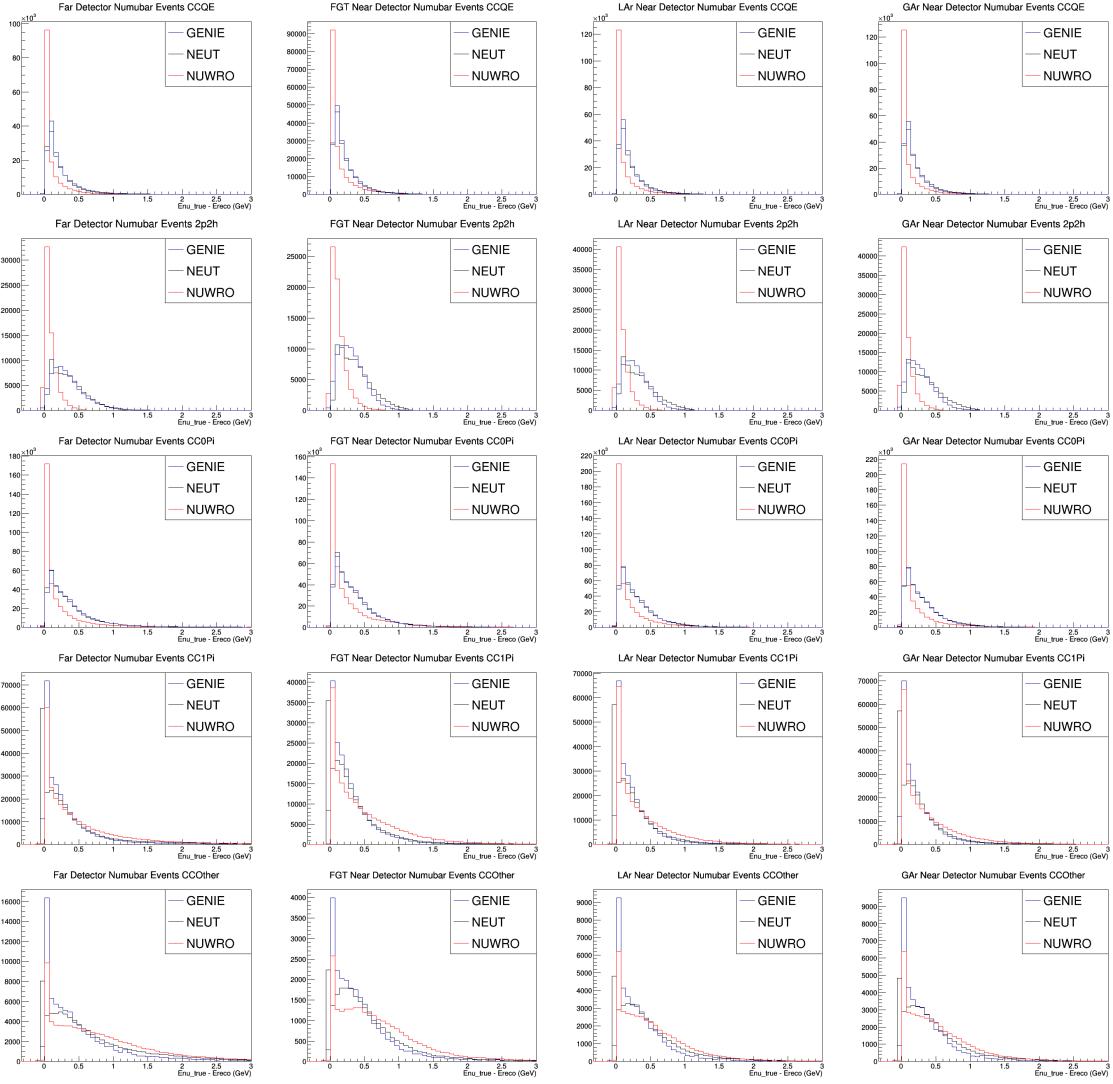
¹Michigan State University

1 Etrue - Ereco Plots

1.1 numu

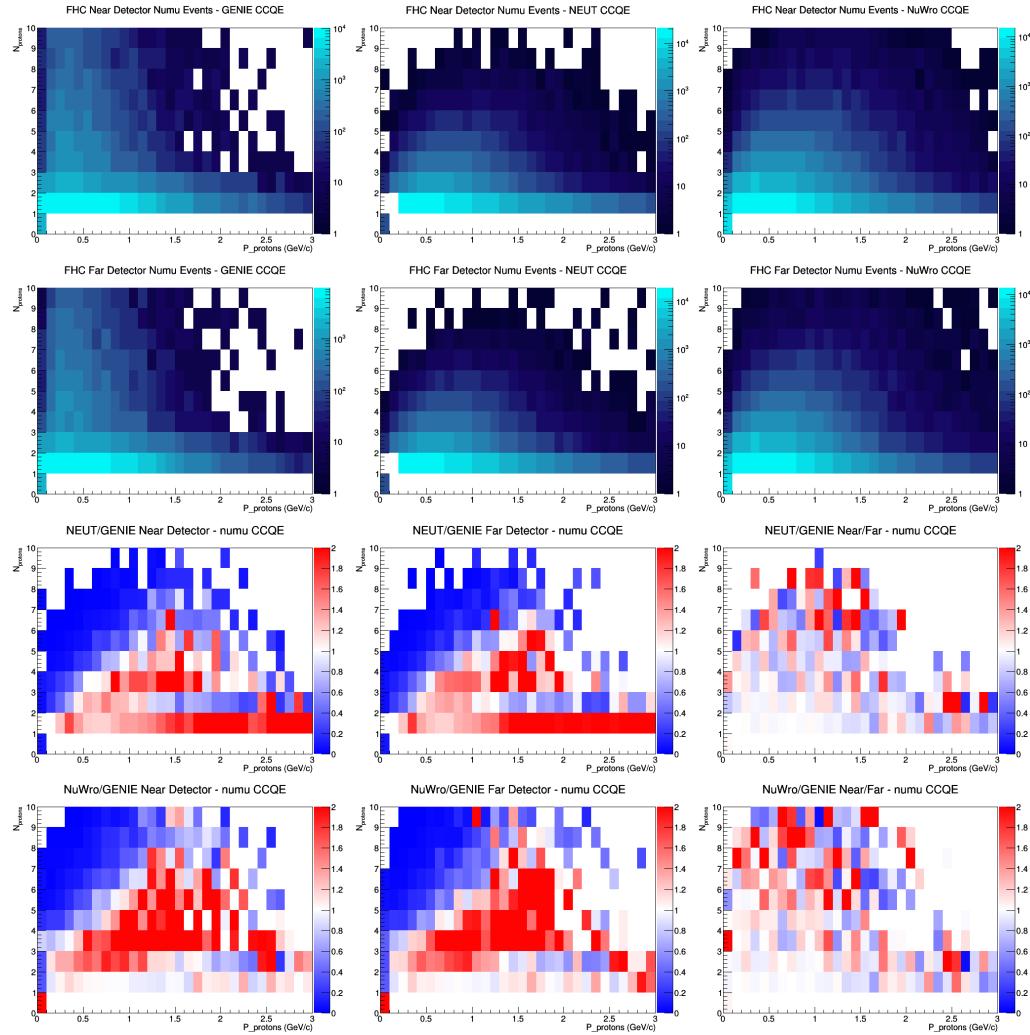


1.2 numubar

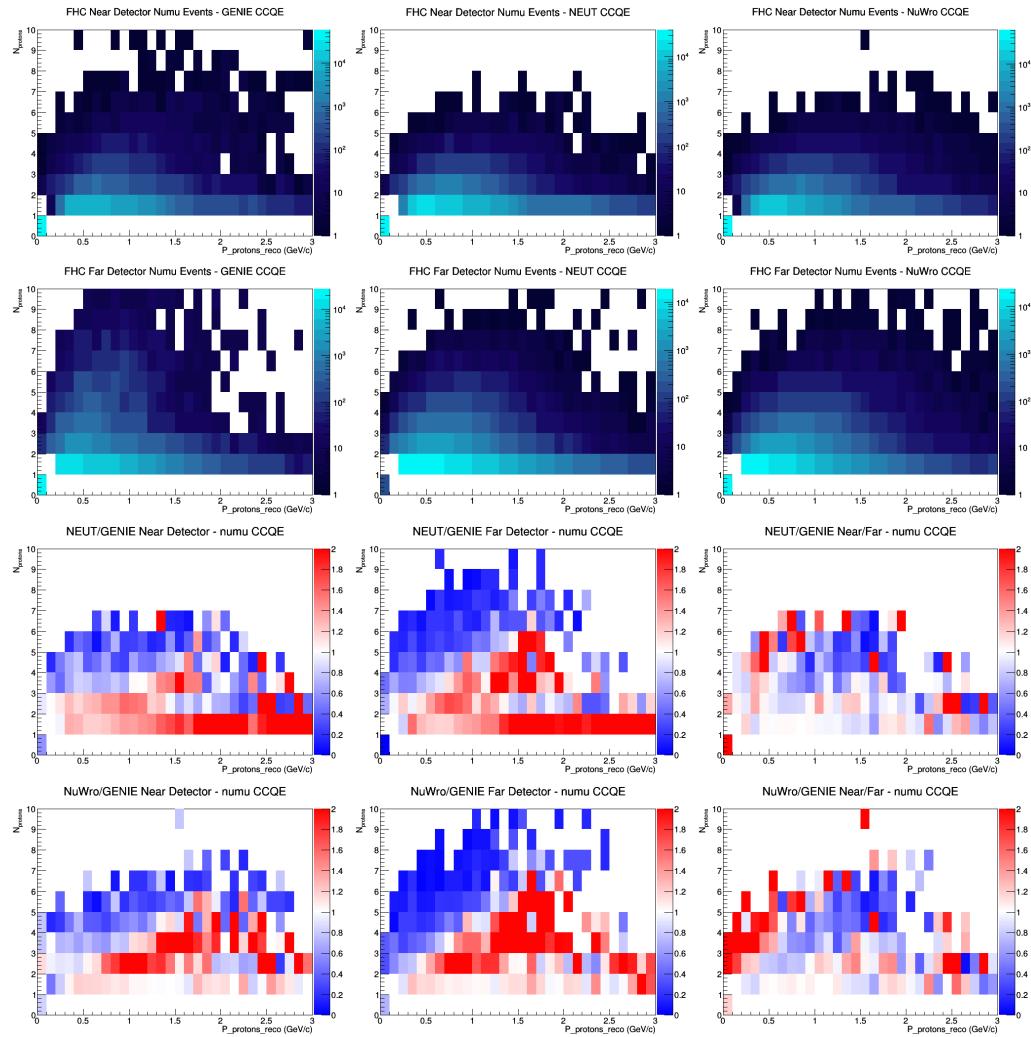


2 N vs. P - Protons Plots

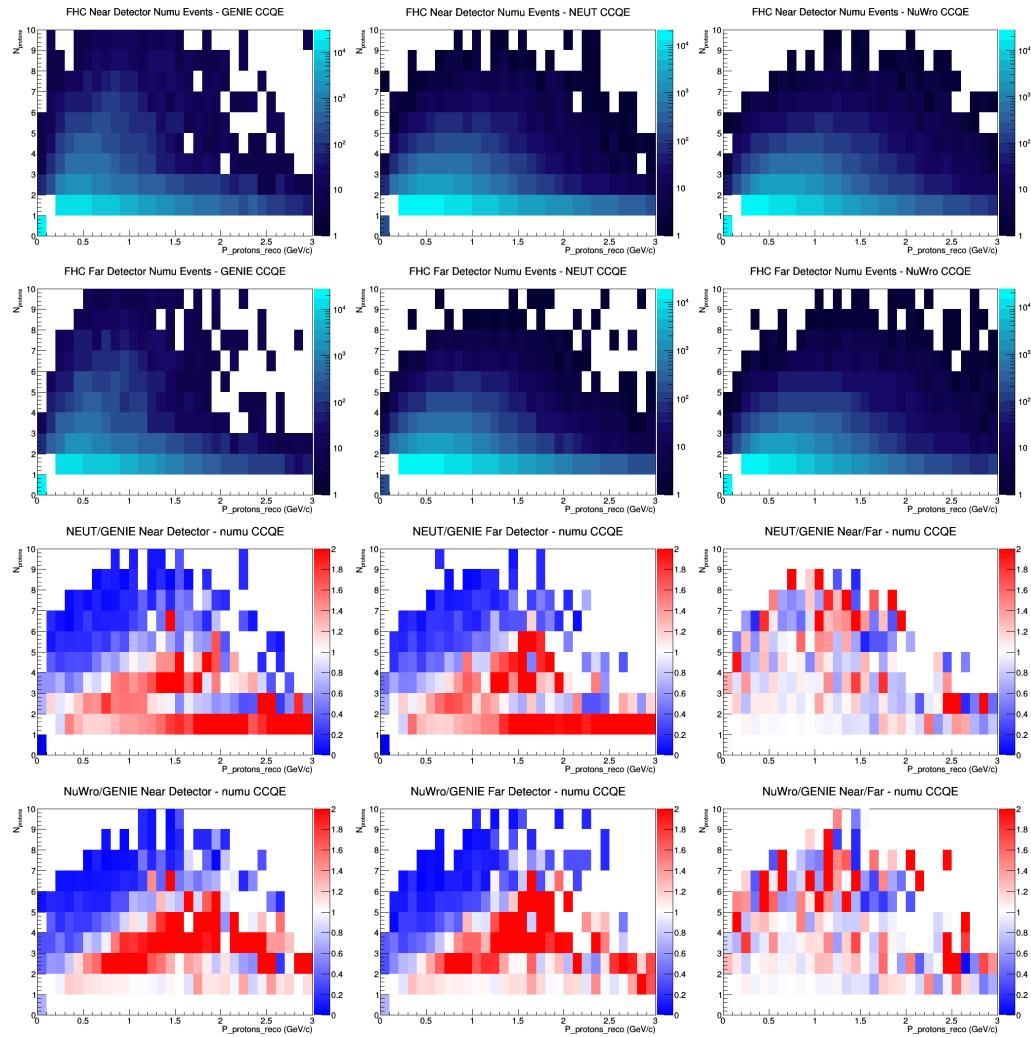
2.1 numu CCQE no efficiencies



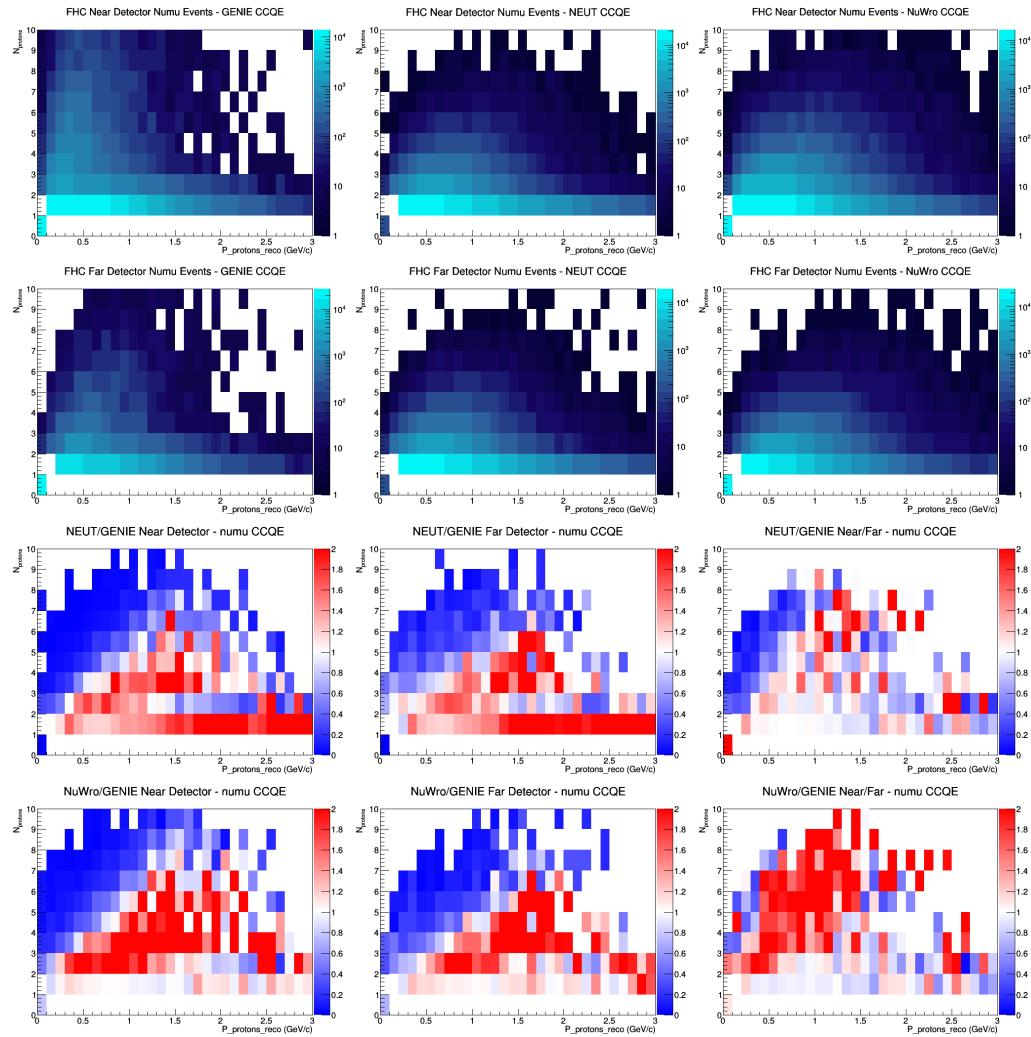
2.2 numu CCQE FGT efficiencies



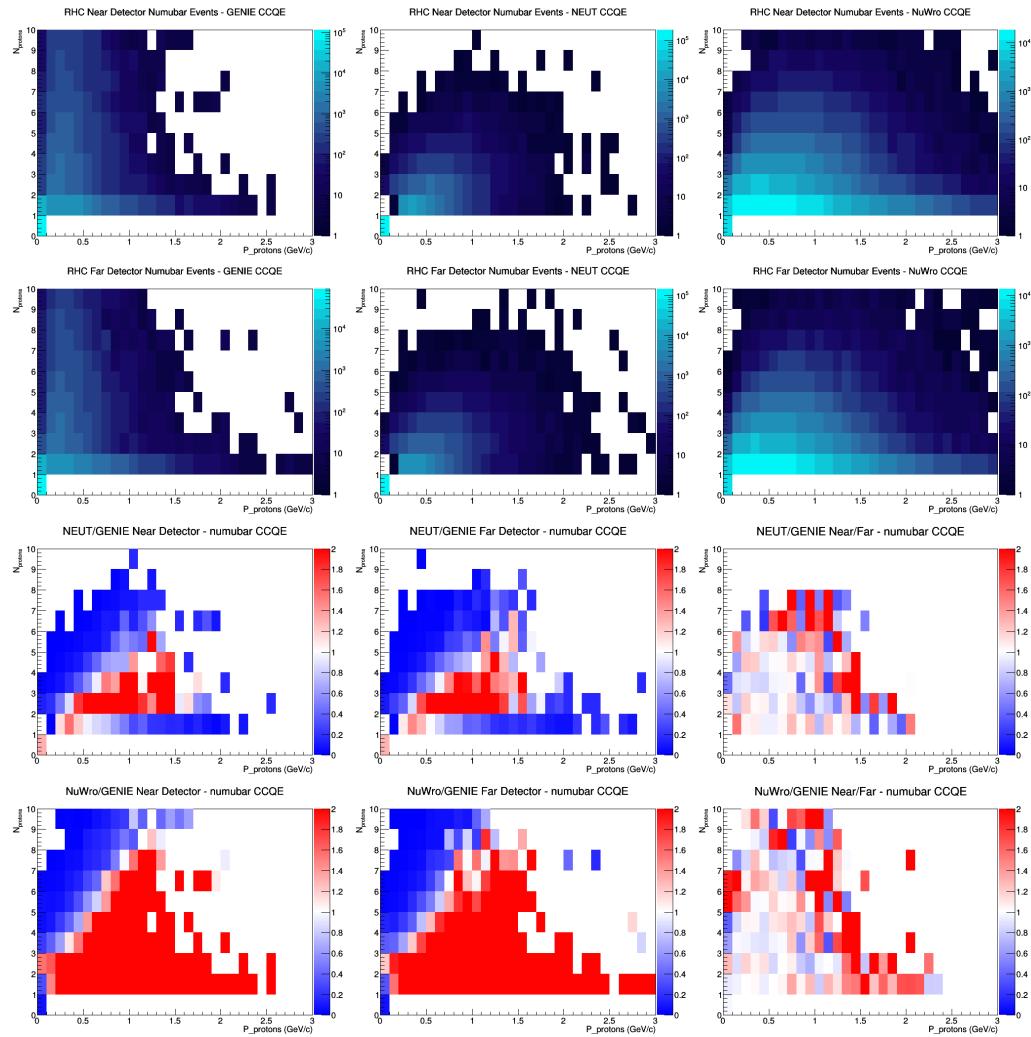
2.3 numu CCQE LAr efficiencies



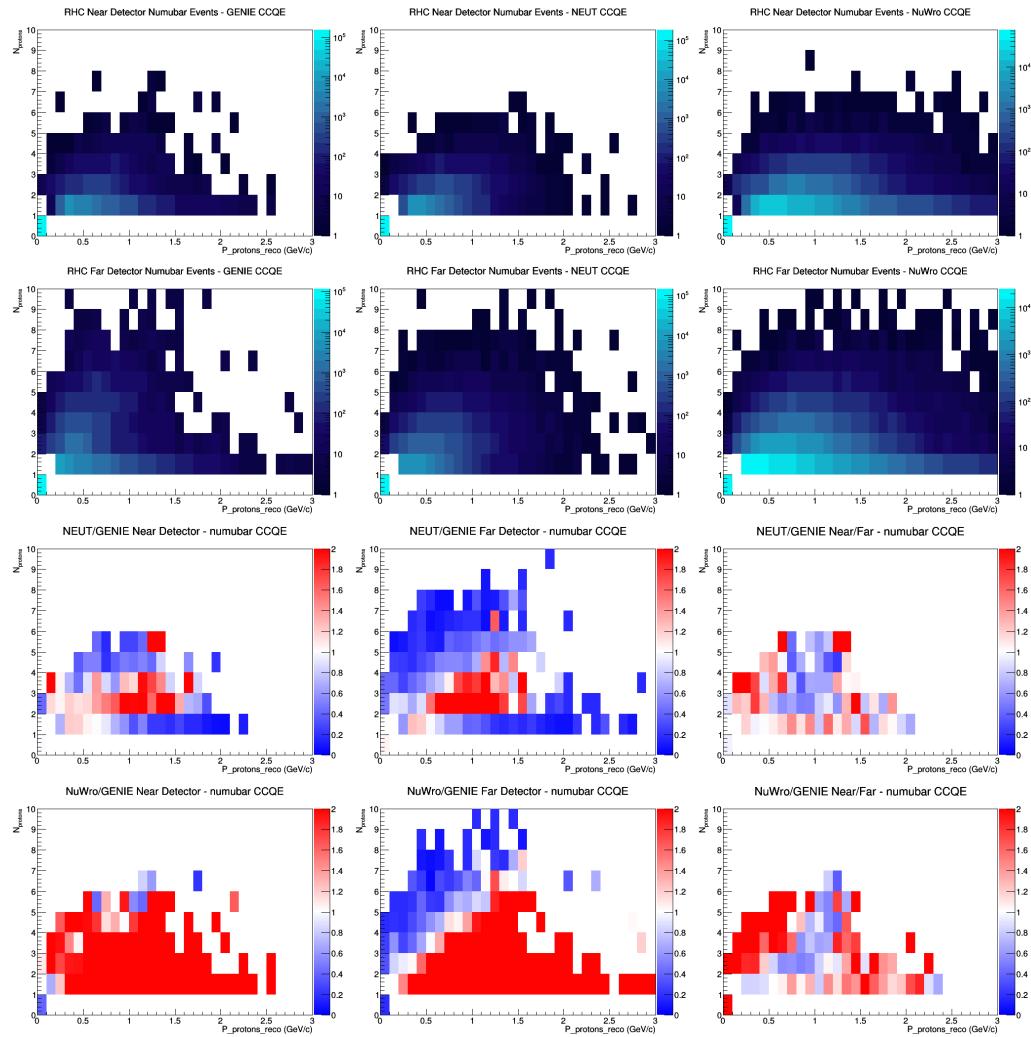
2.4 numu CCQE GAr efficiencies



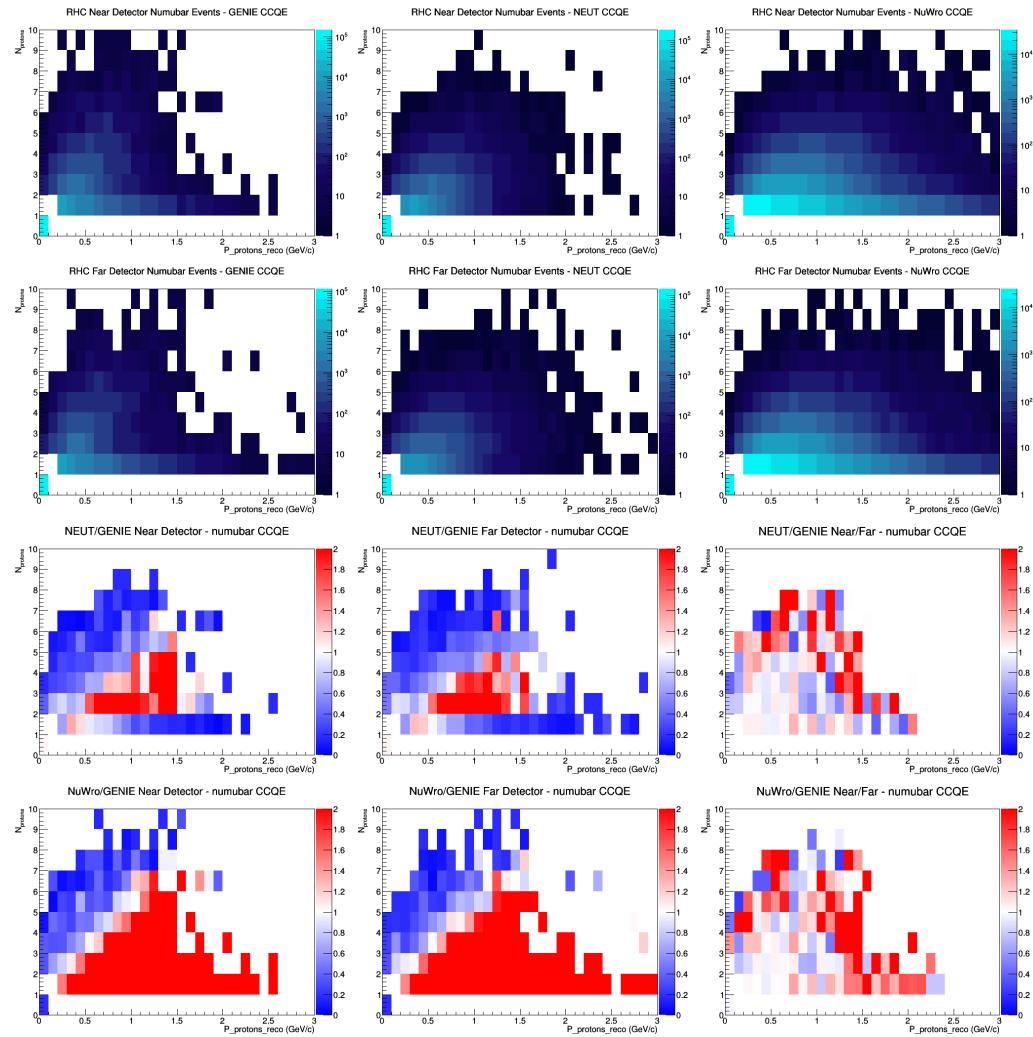
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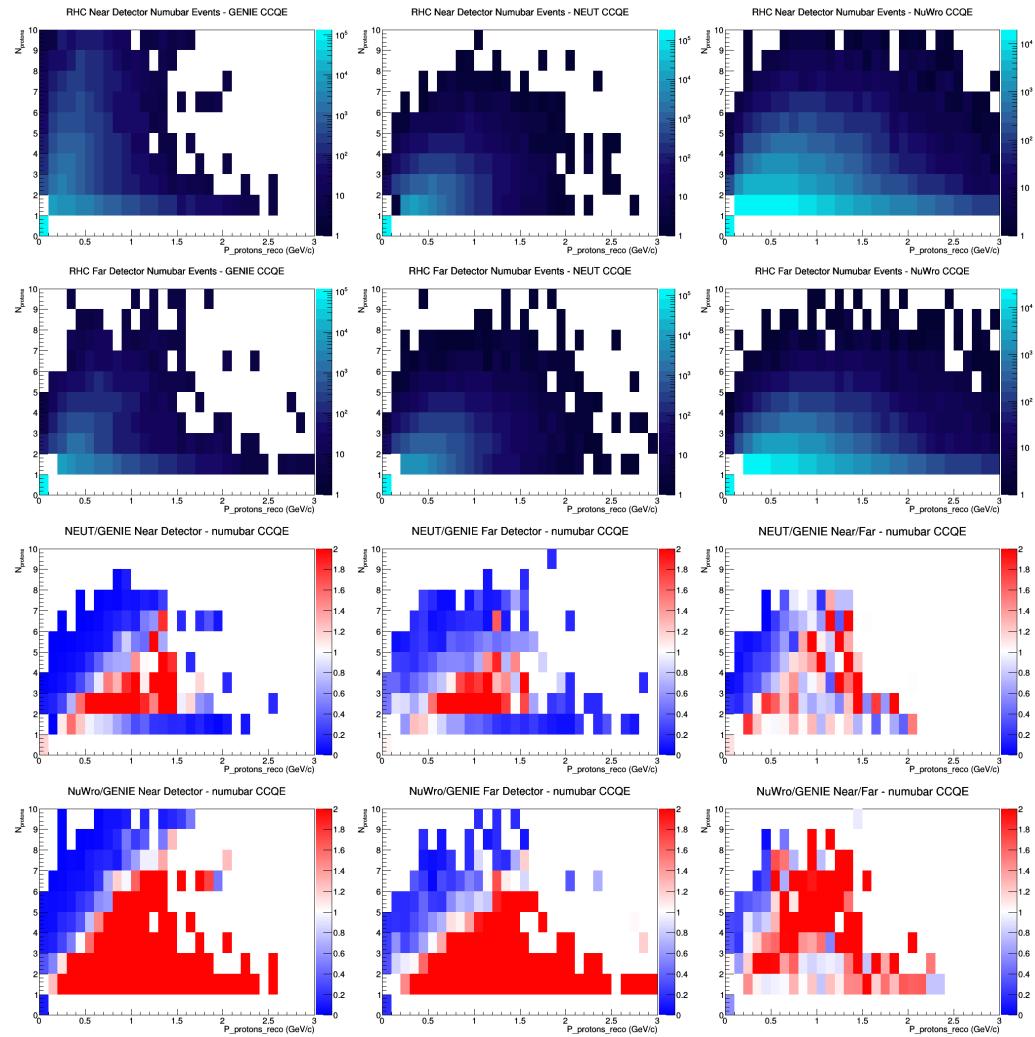
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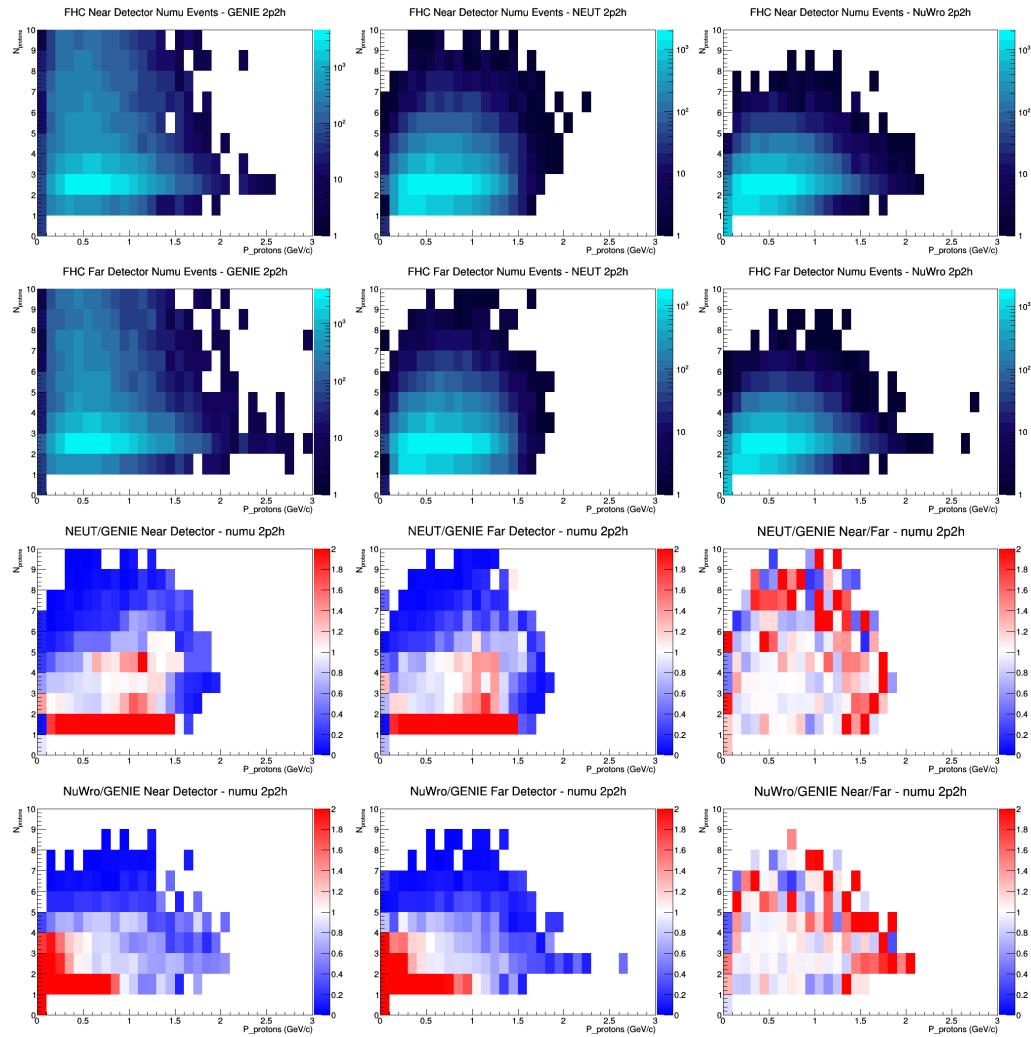
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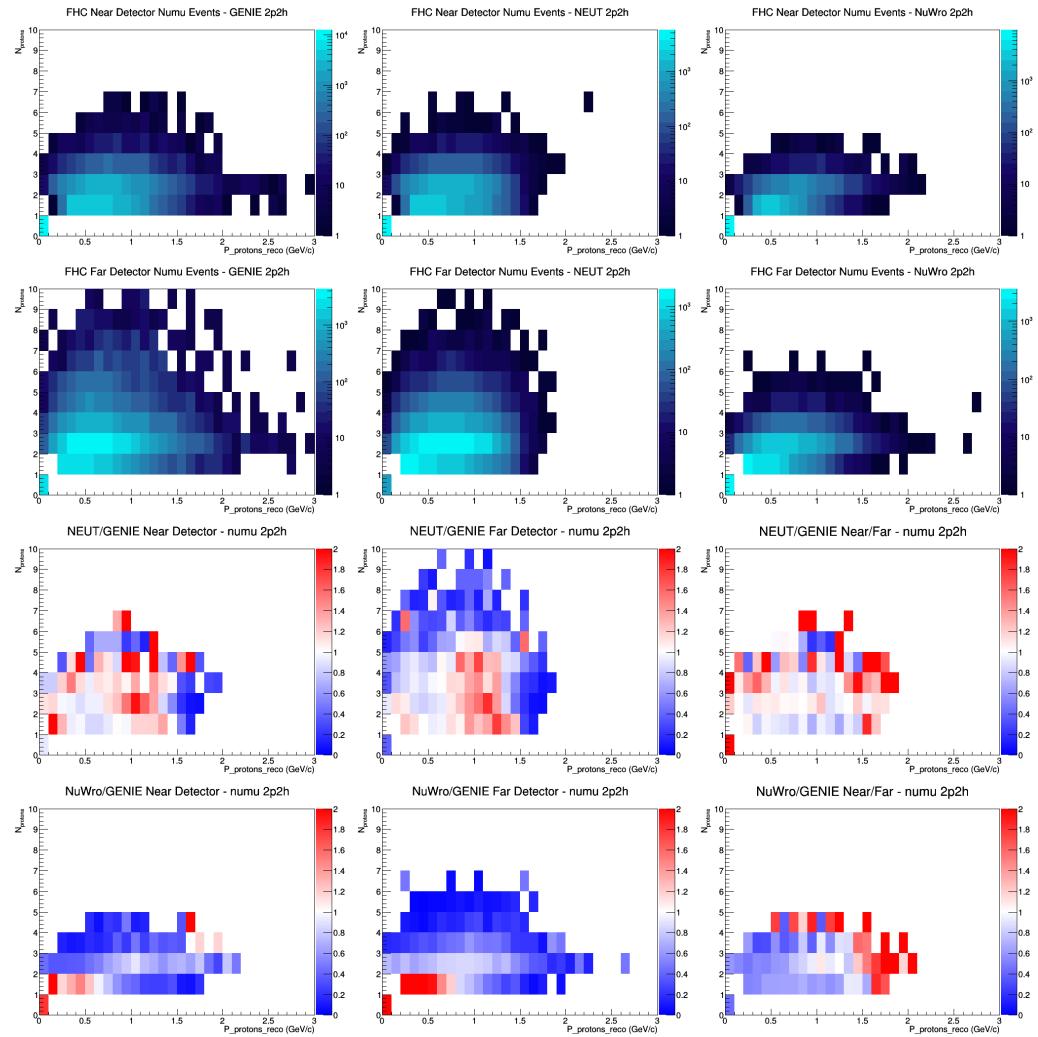
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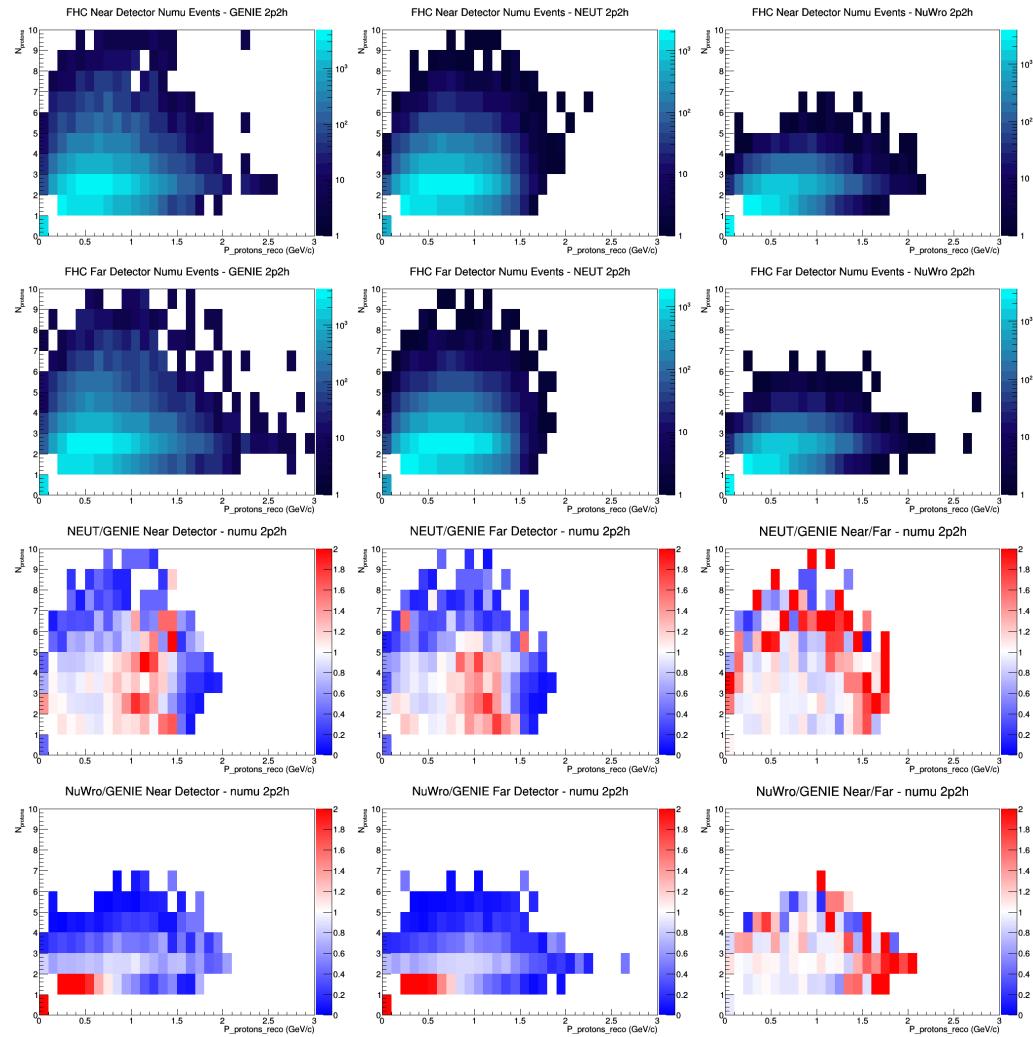
2.9 numu 2p2h no efficiencies



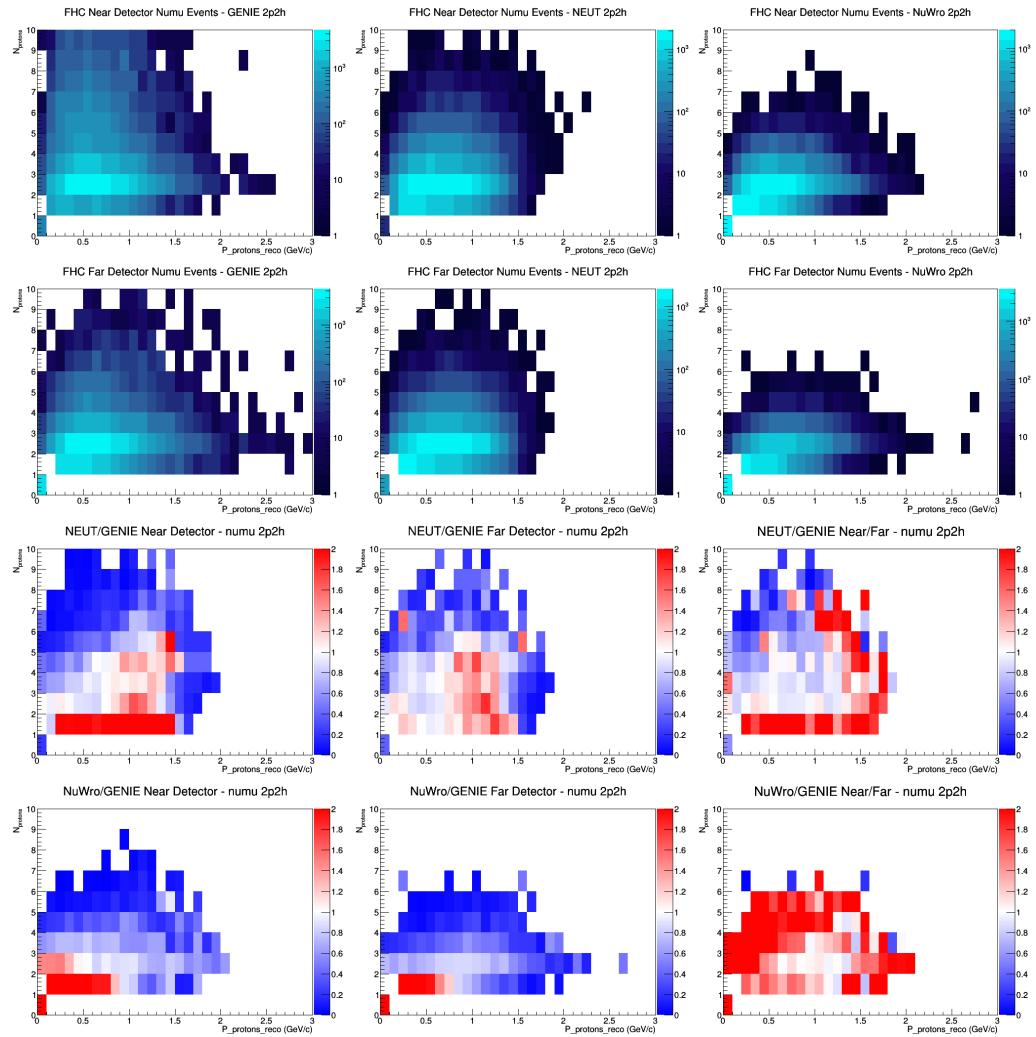
2.10 numu 2p2h FGT efficiencies



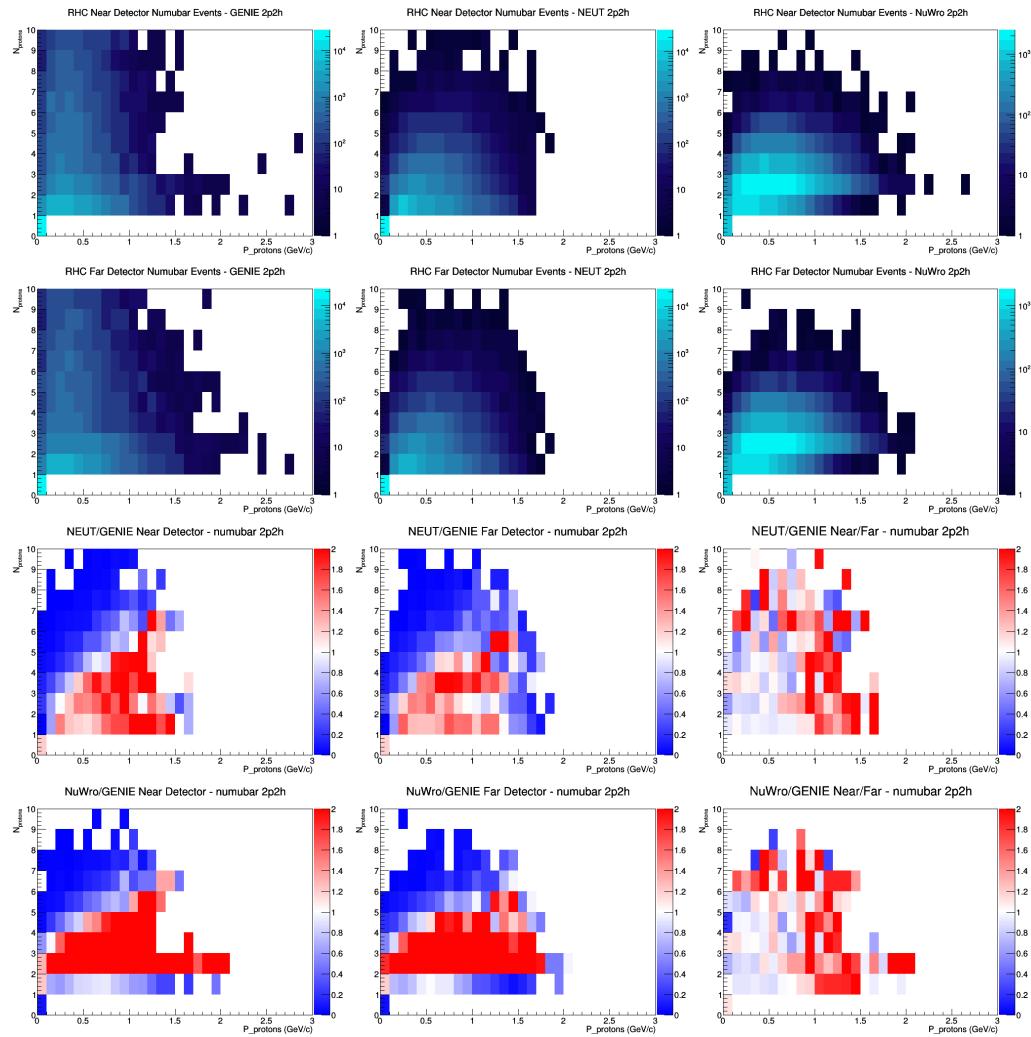
2.11 numu 2p2h LAr efficiencies



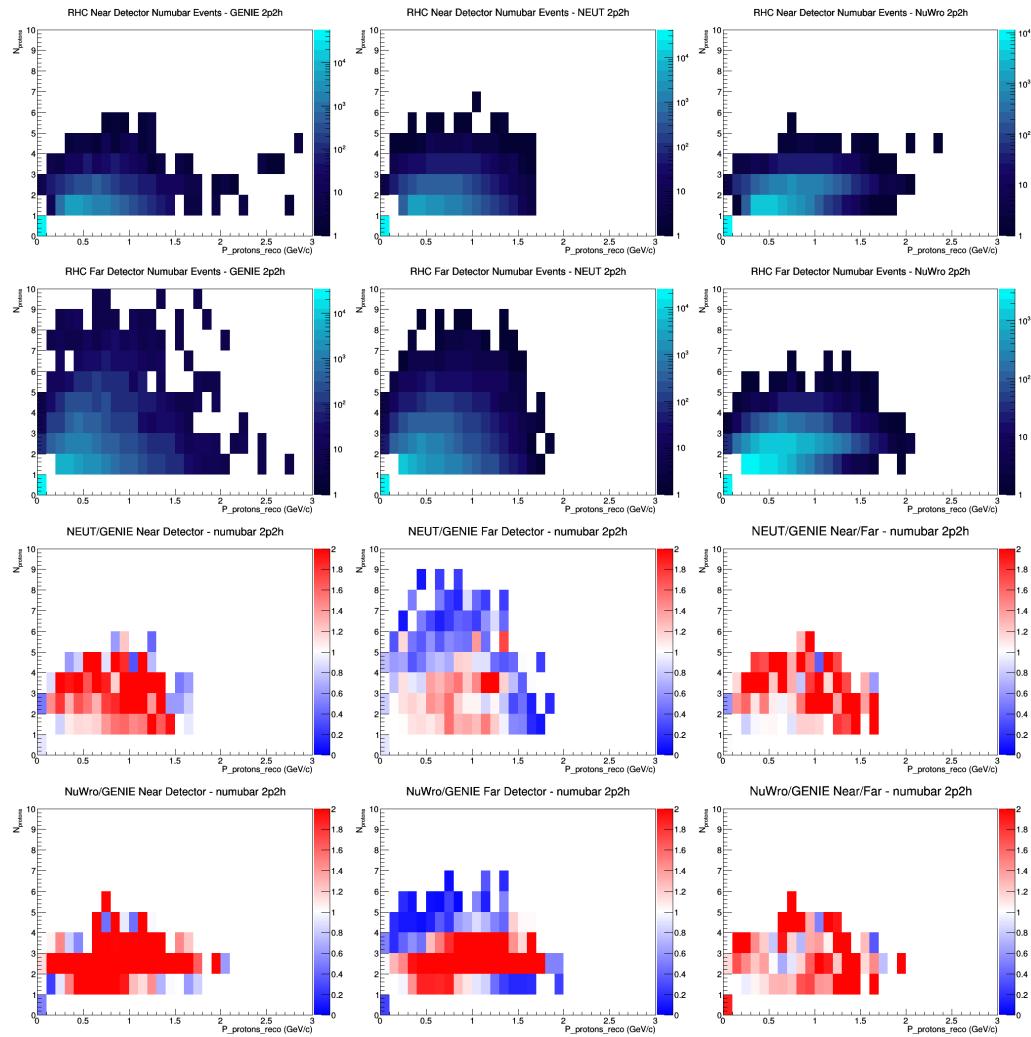
2.12 numu 2p2h GAr efficiencies



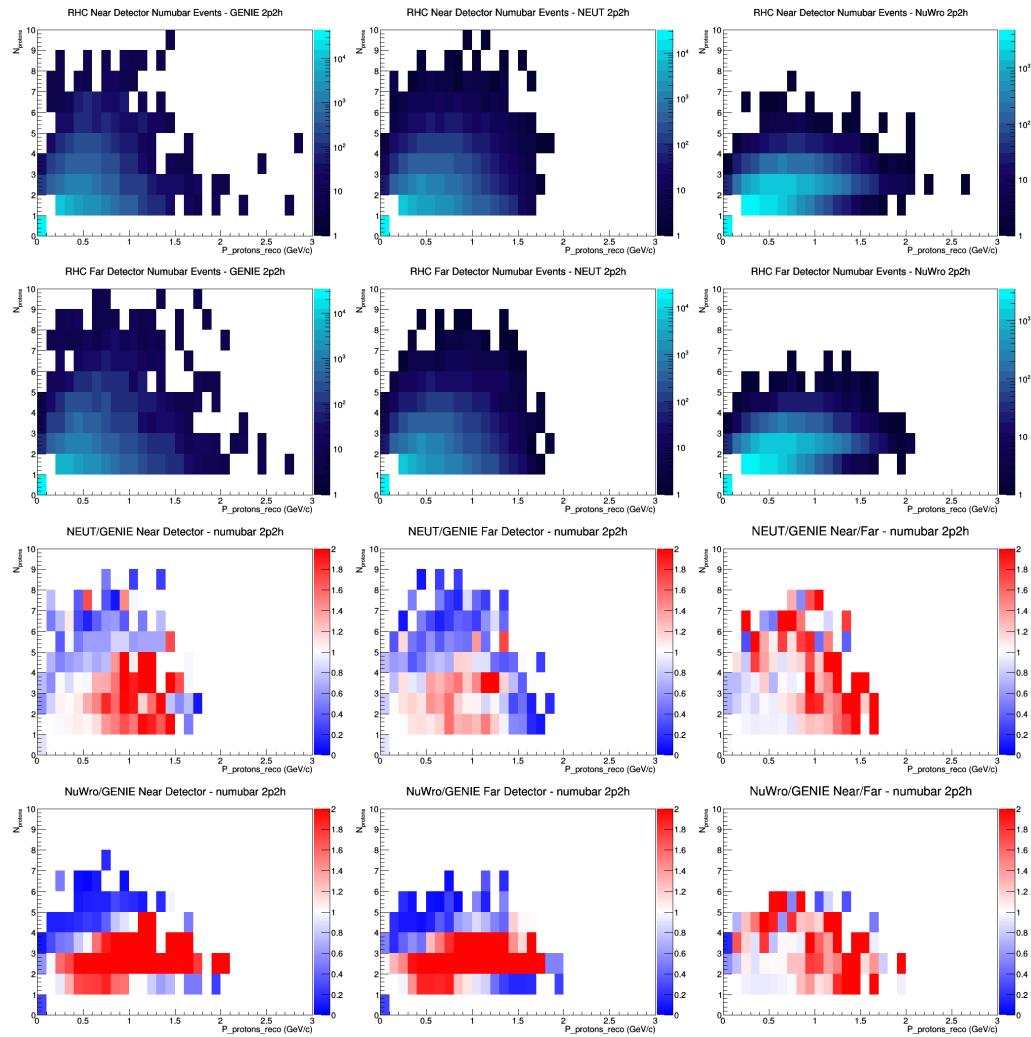
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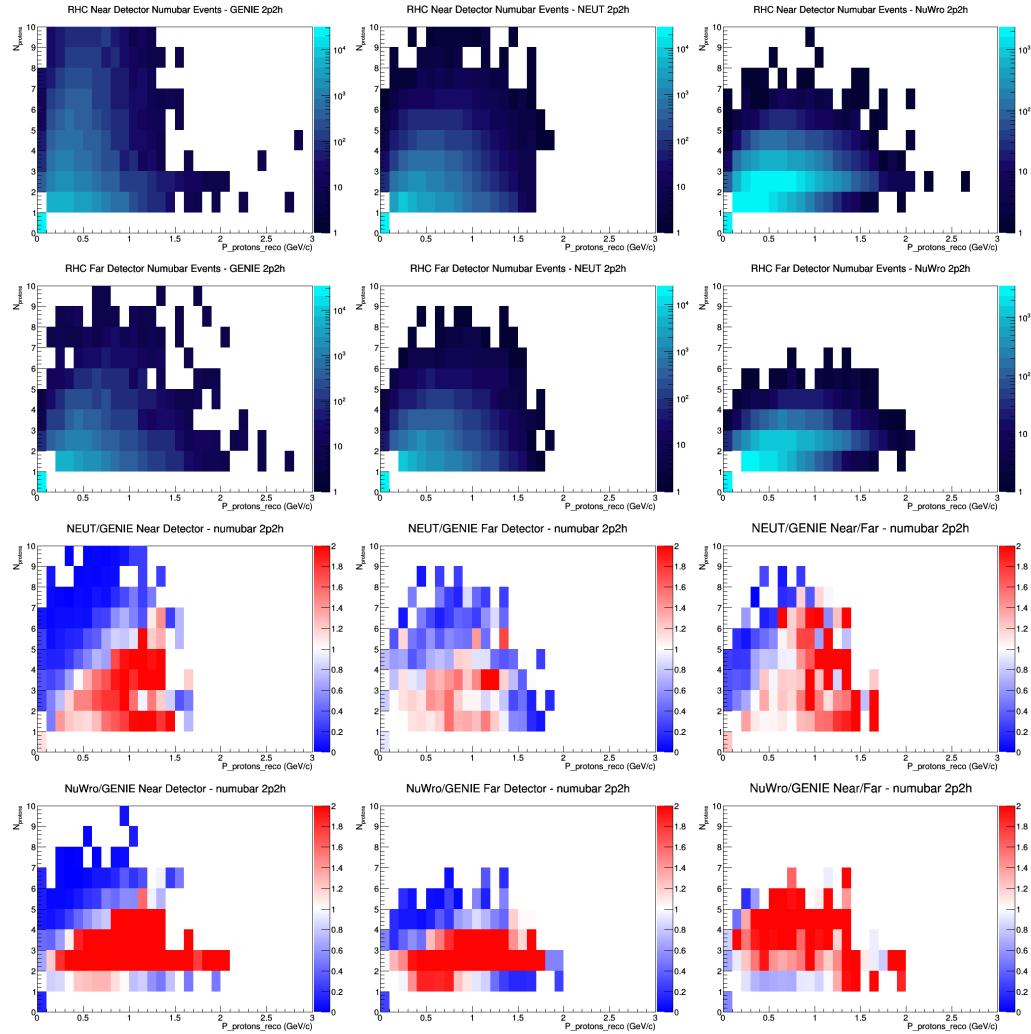
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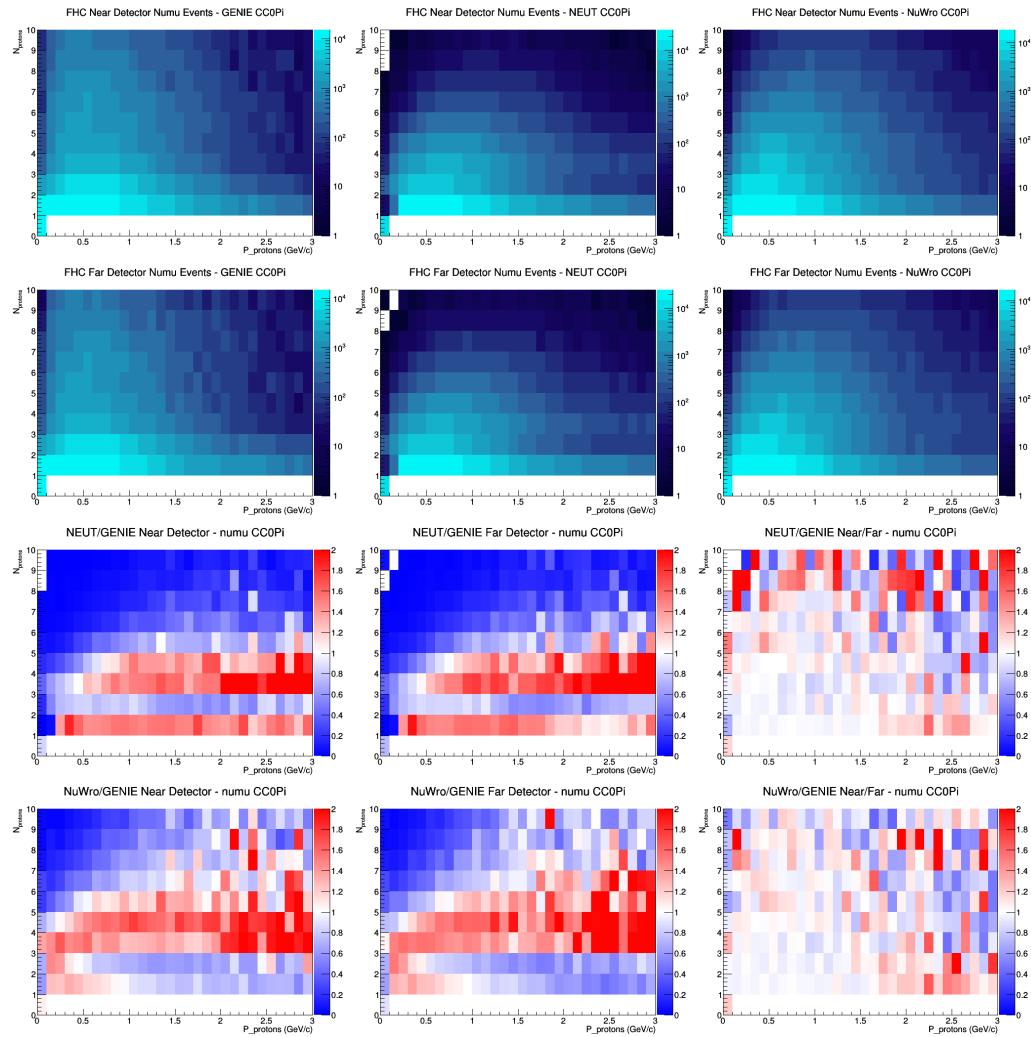
2.15 numubar 2p2h LAr efficiencies



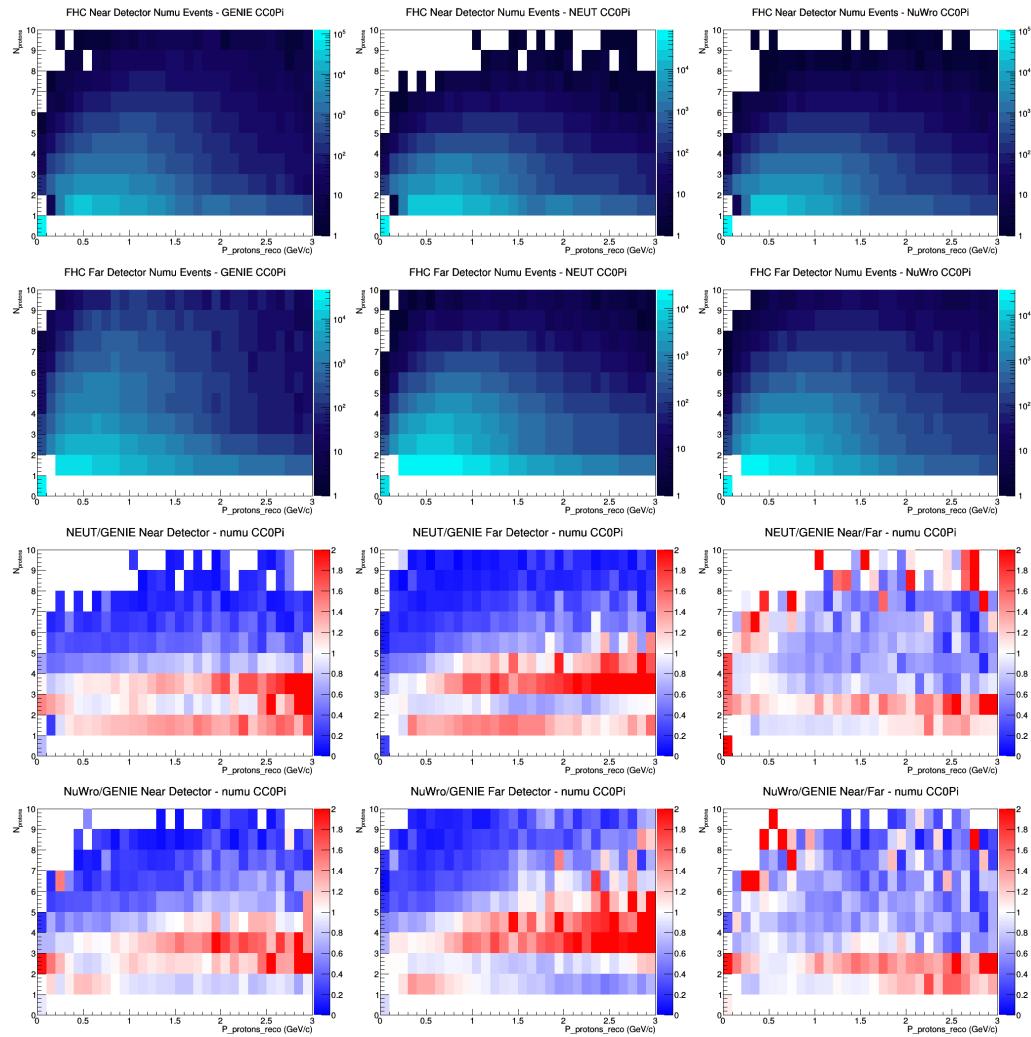
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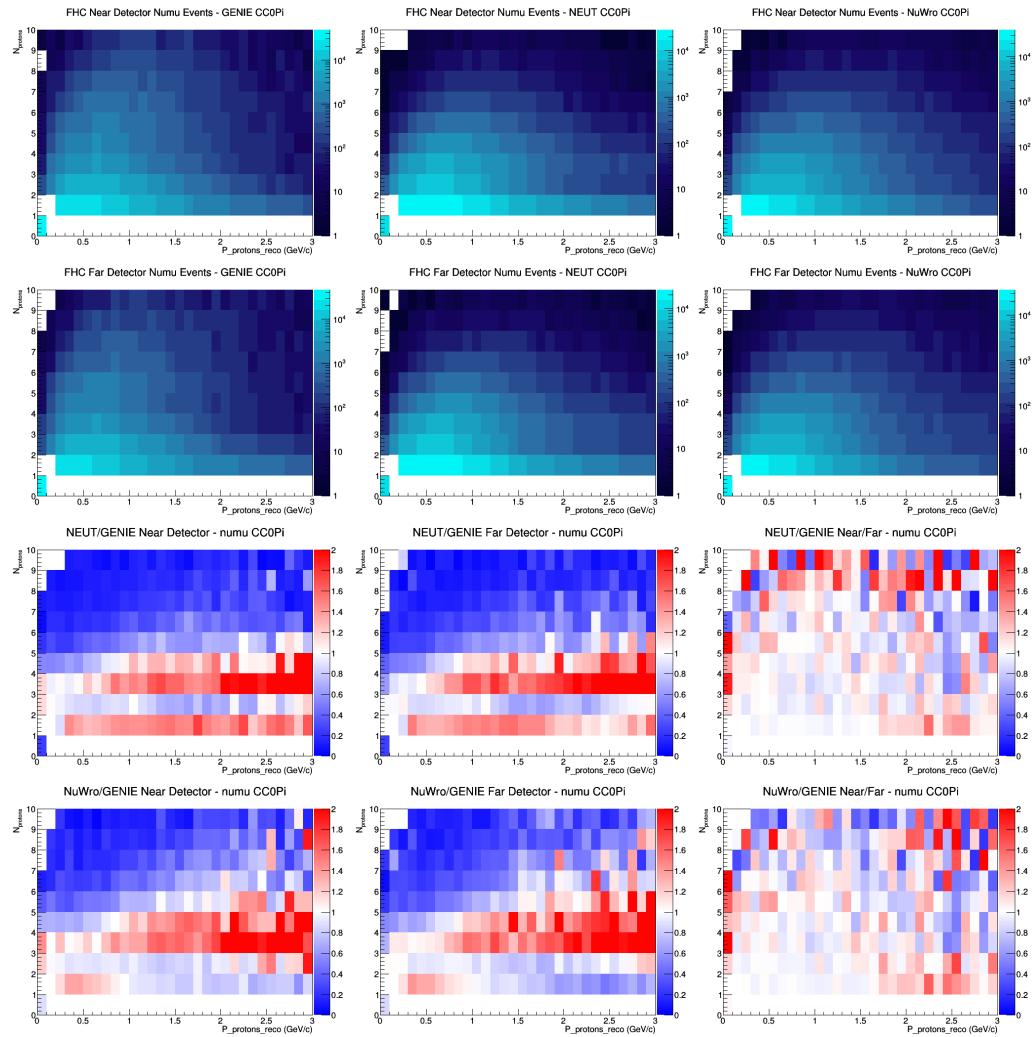
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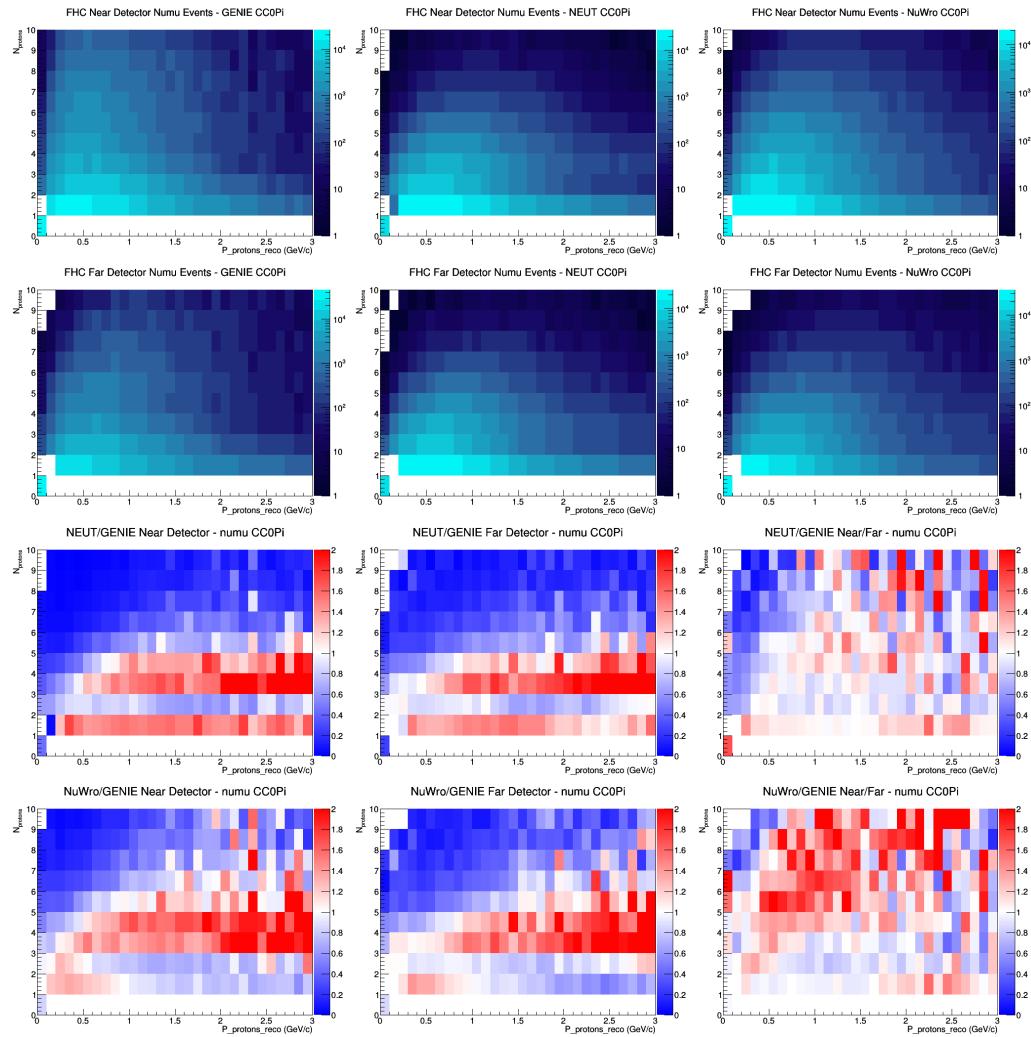
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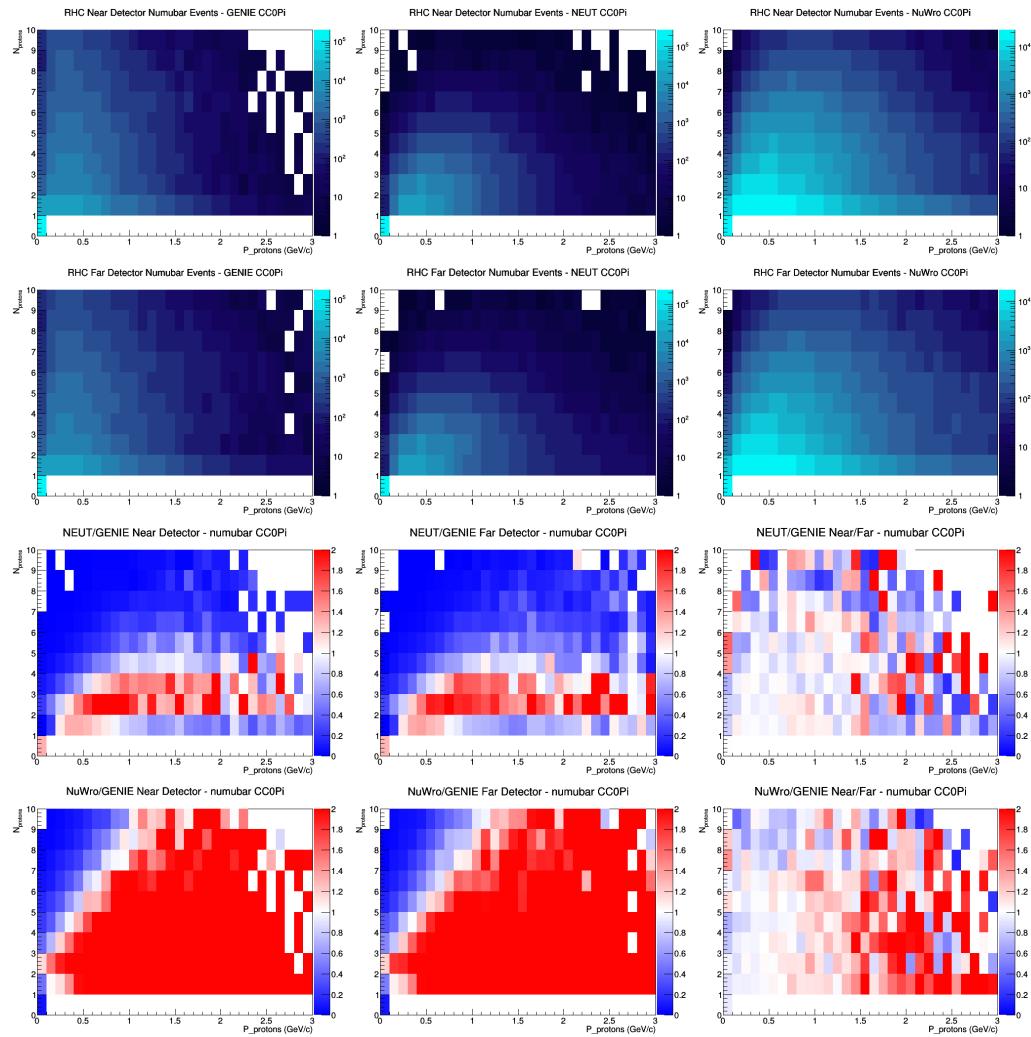
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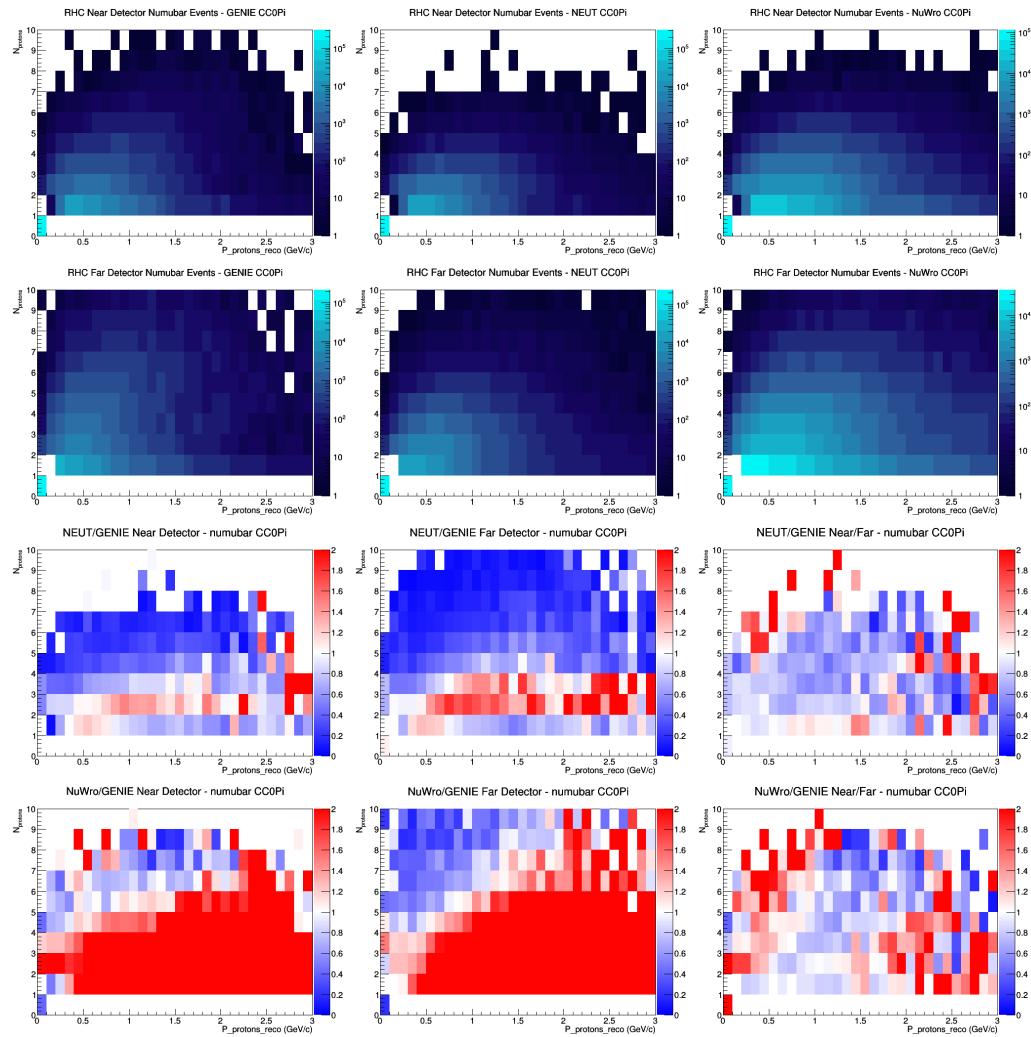
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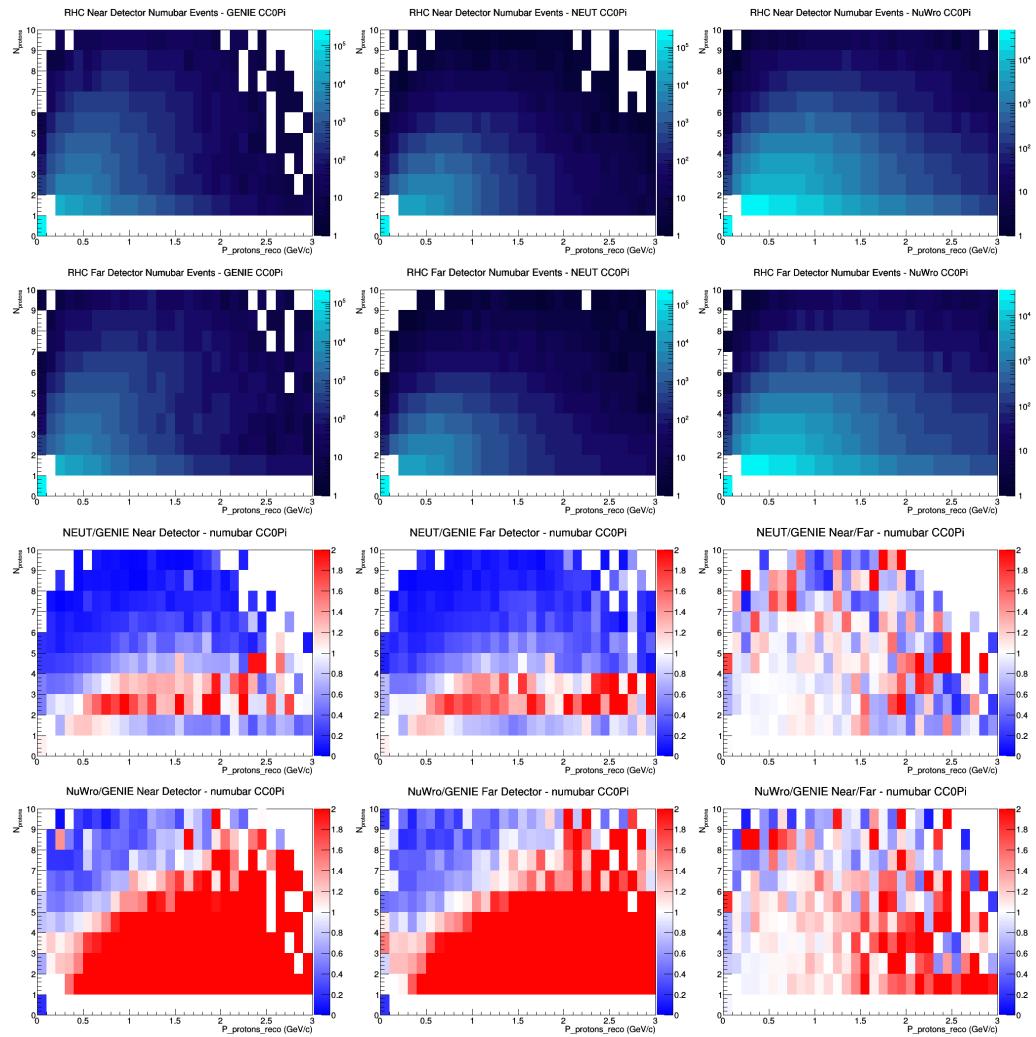
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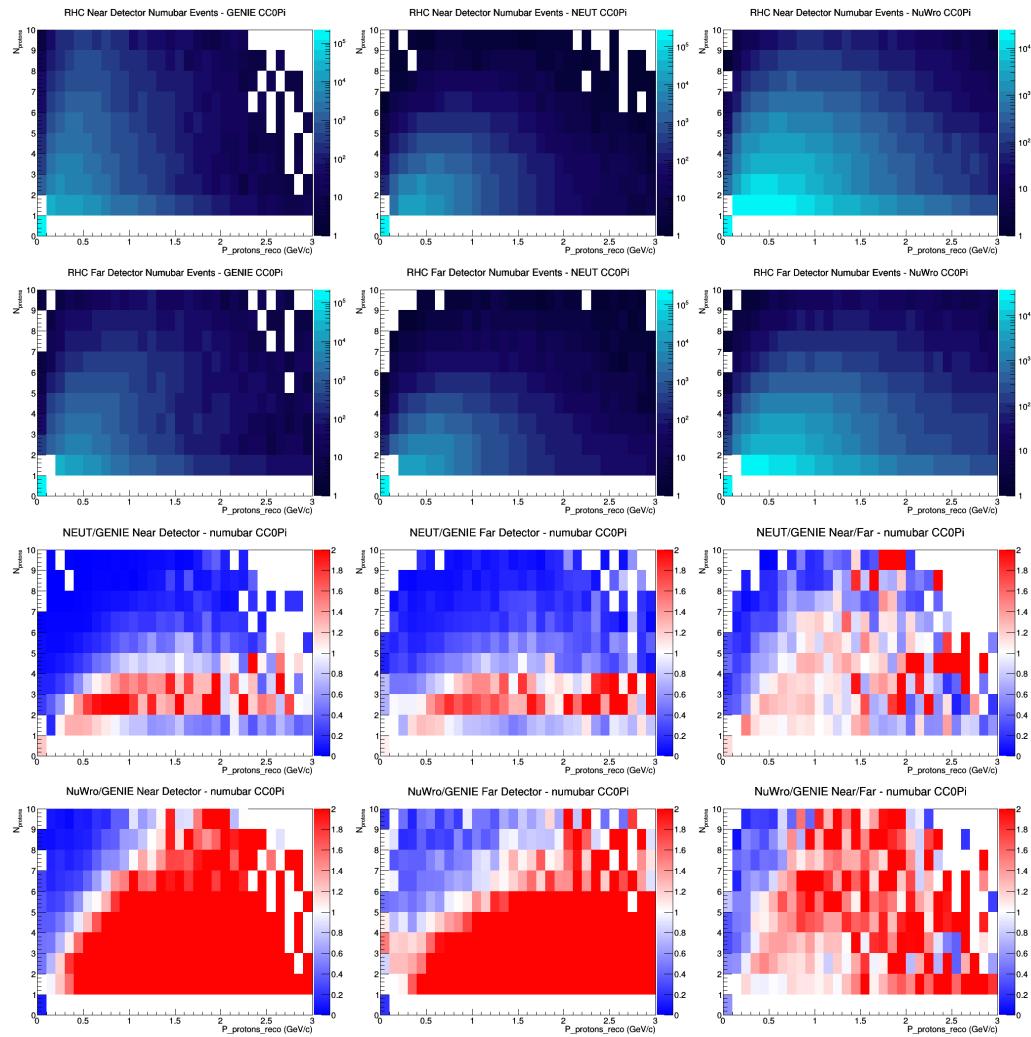
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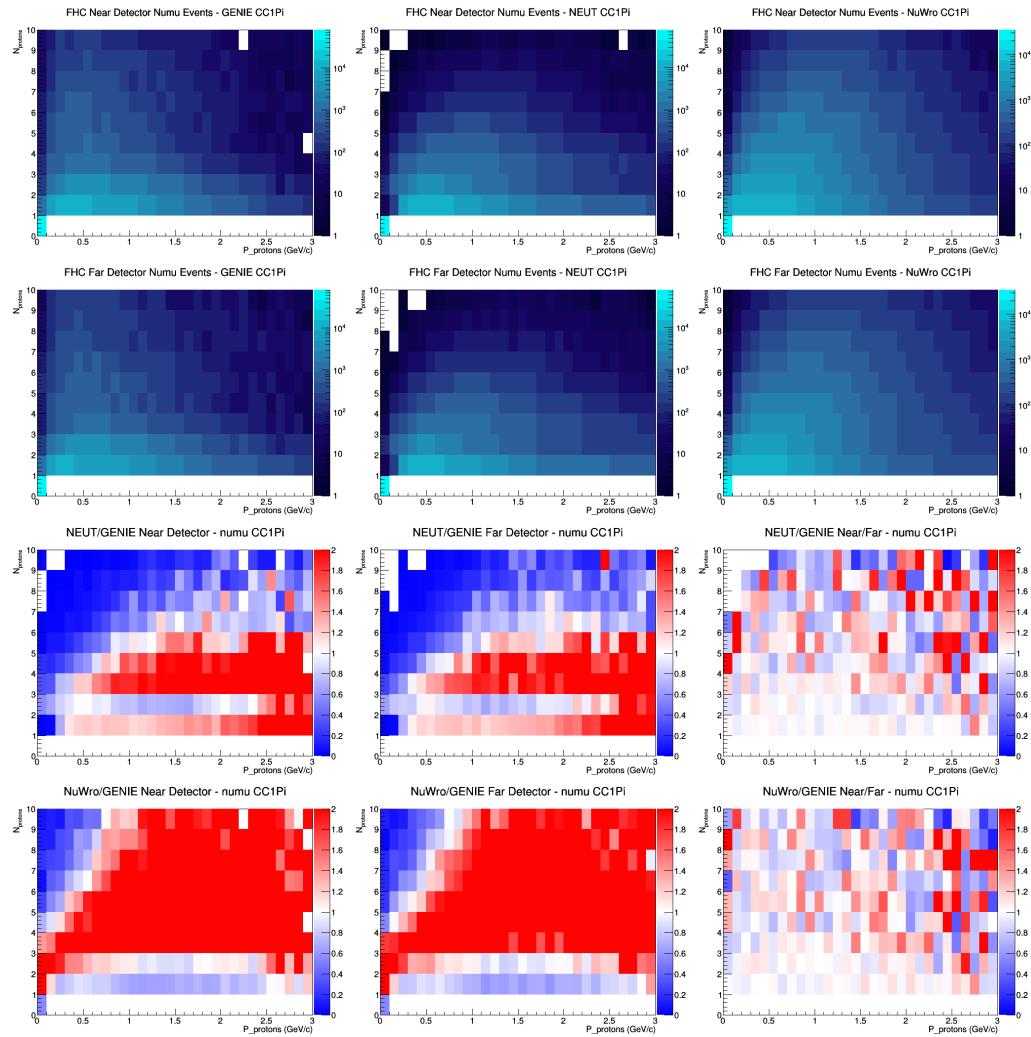
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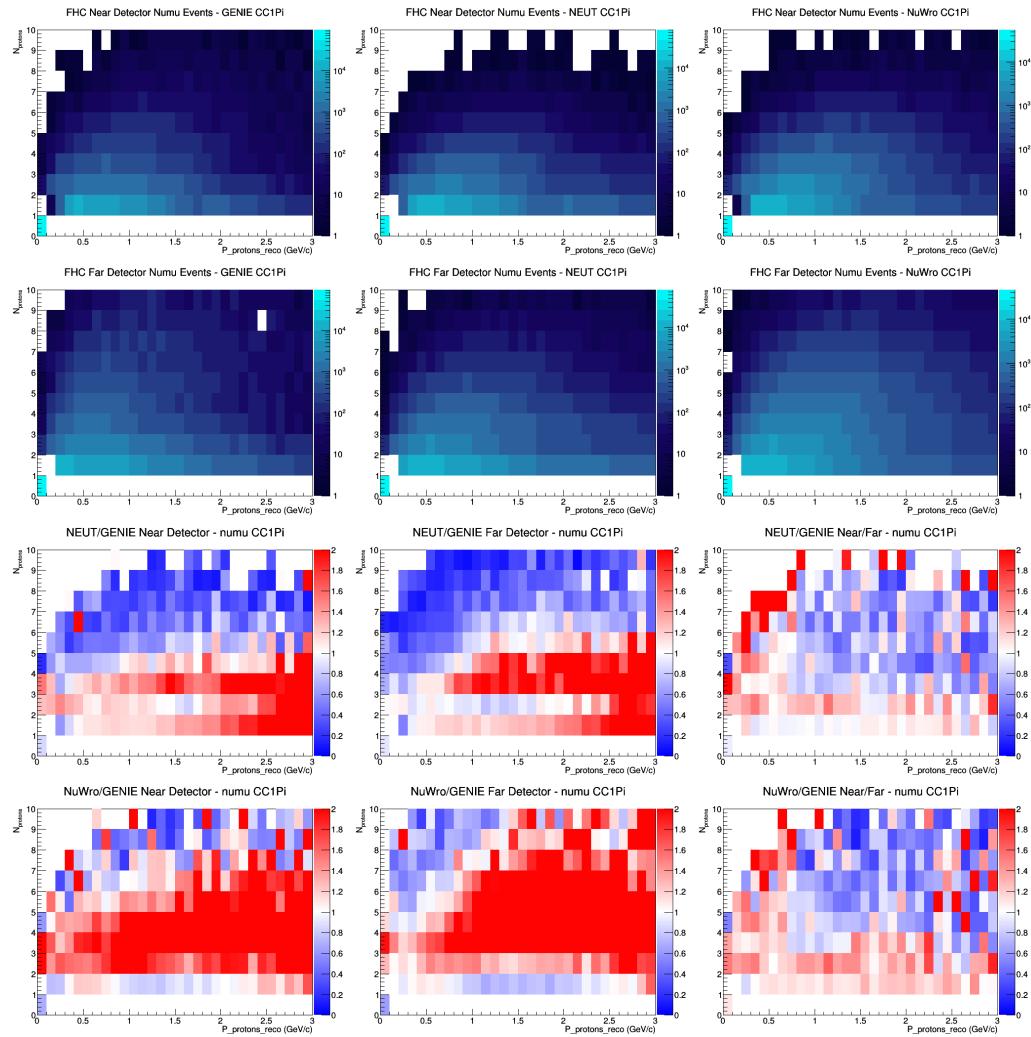
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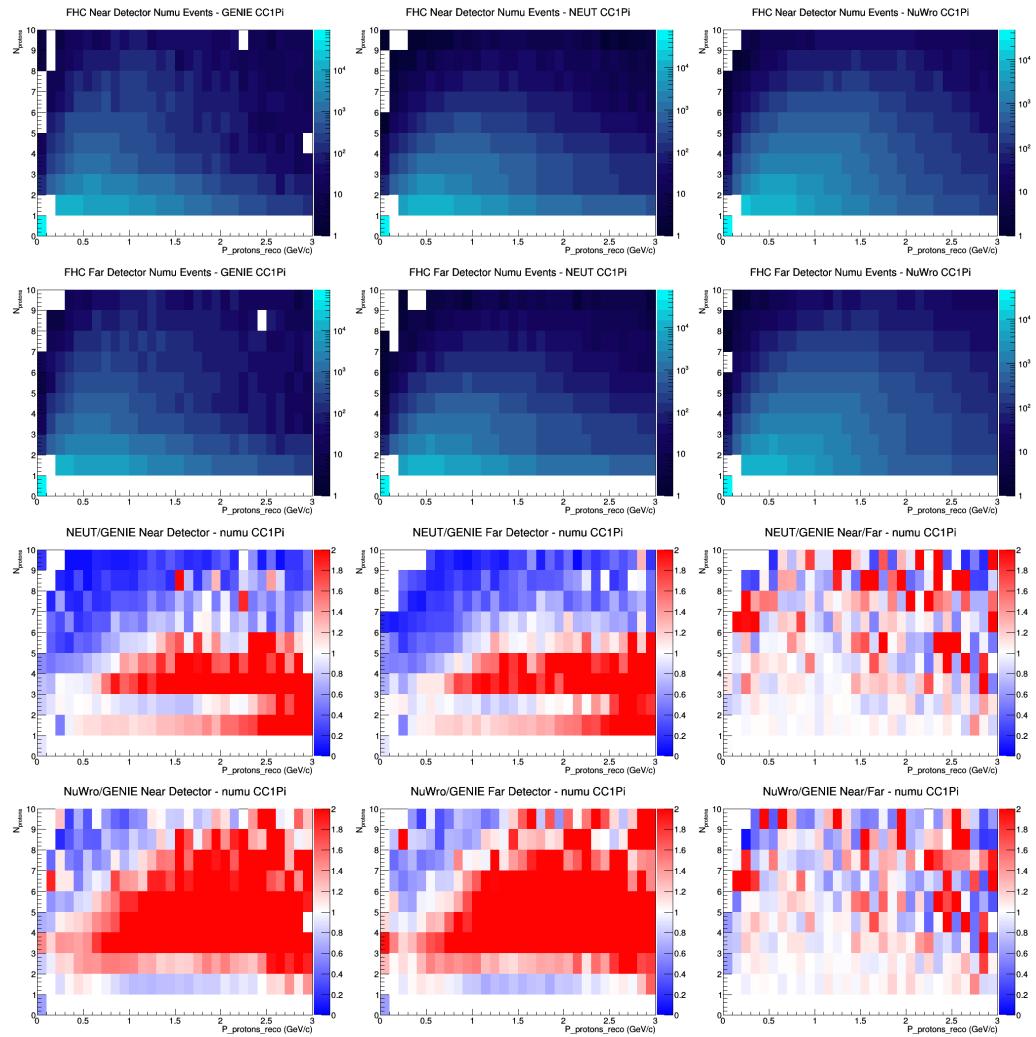
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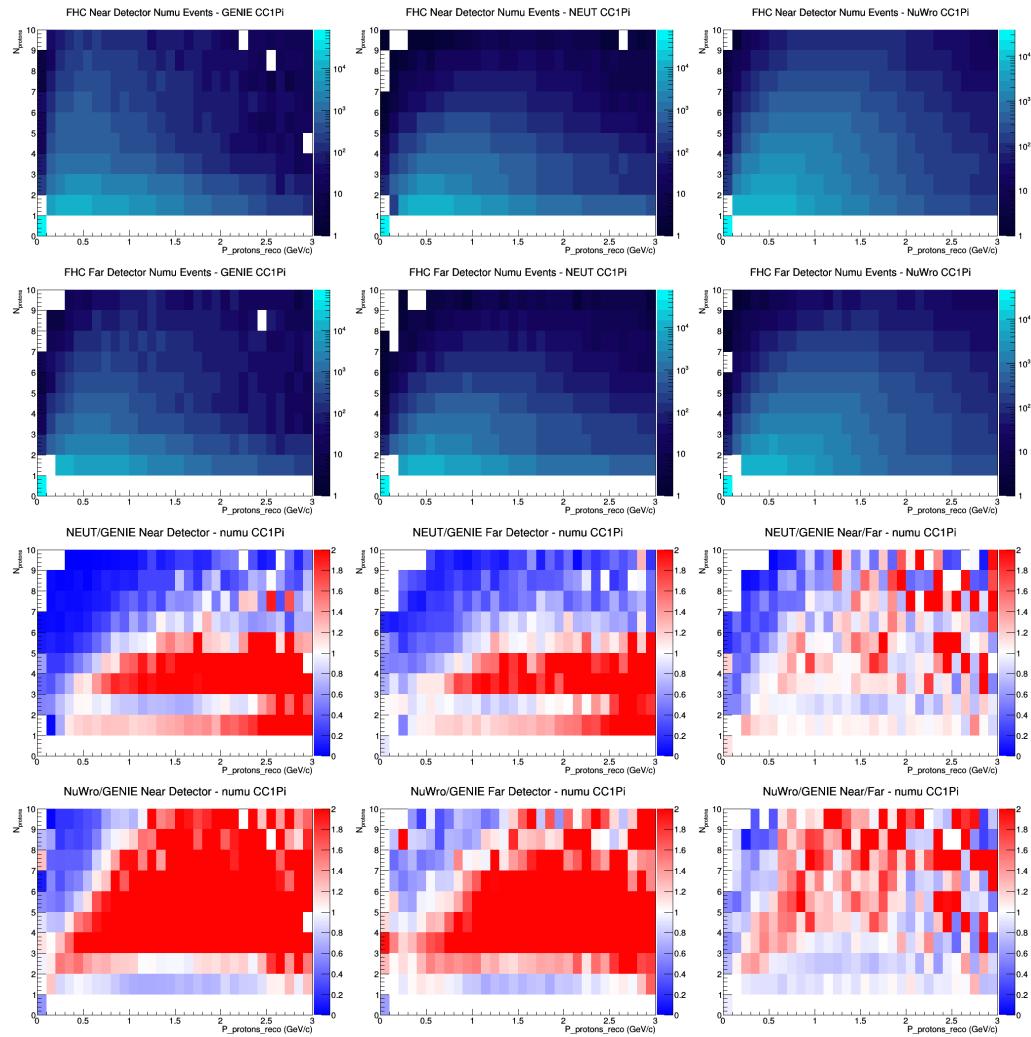
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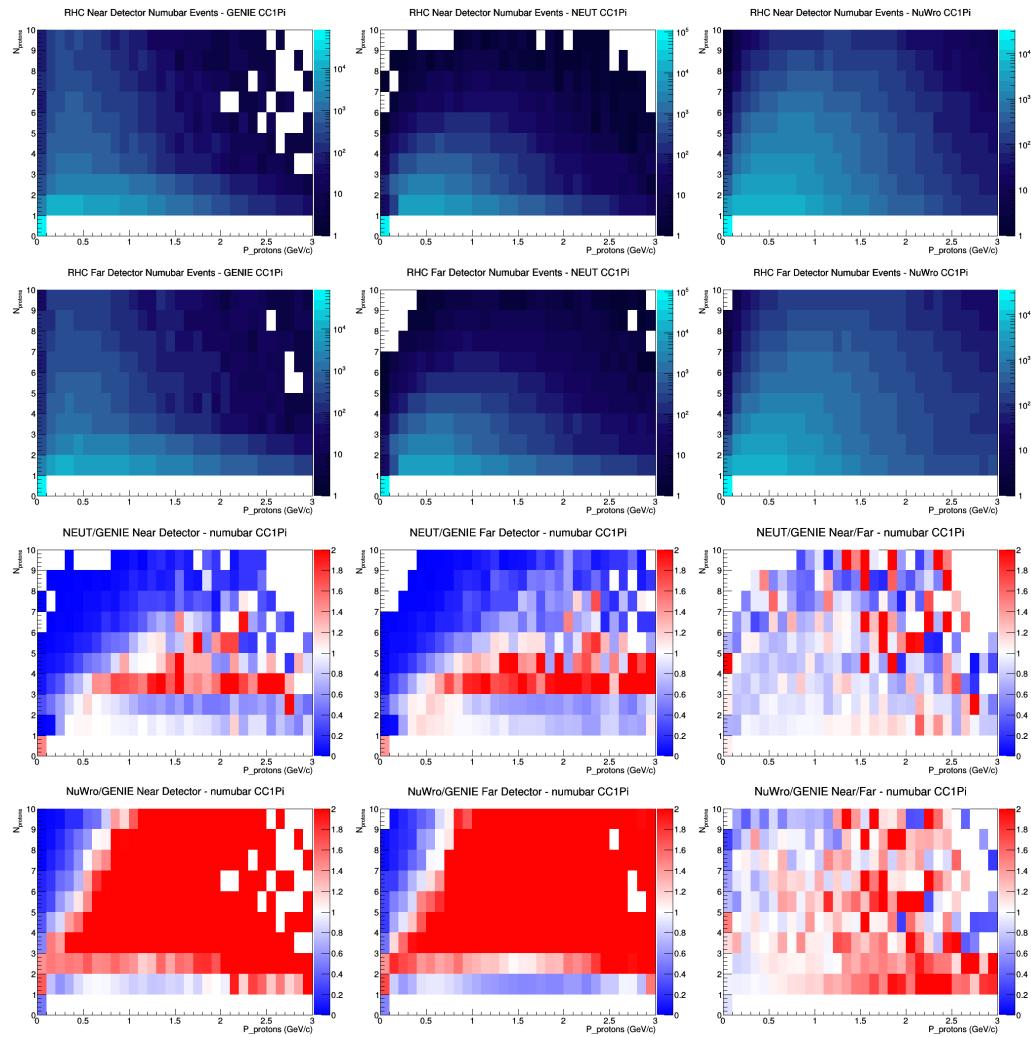
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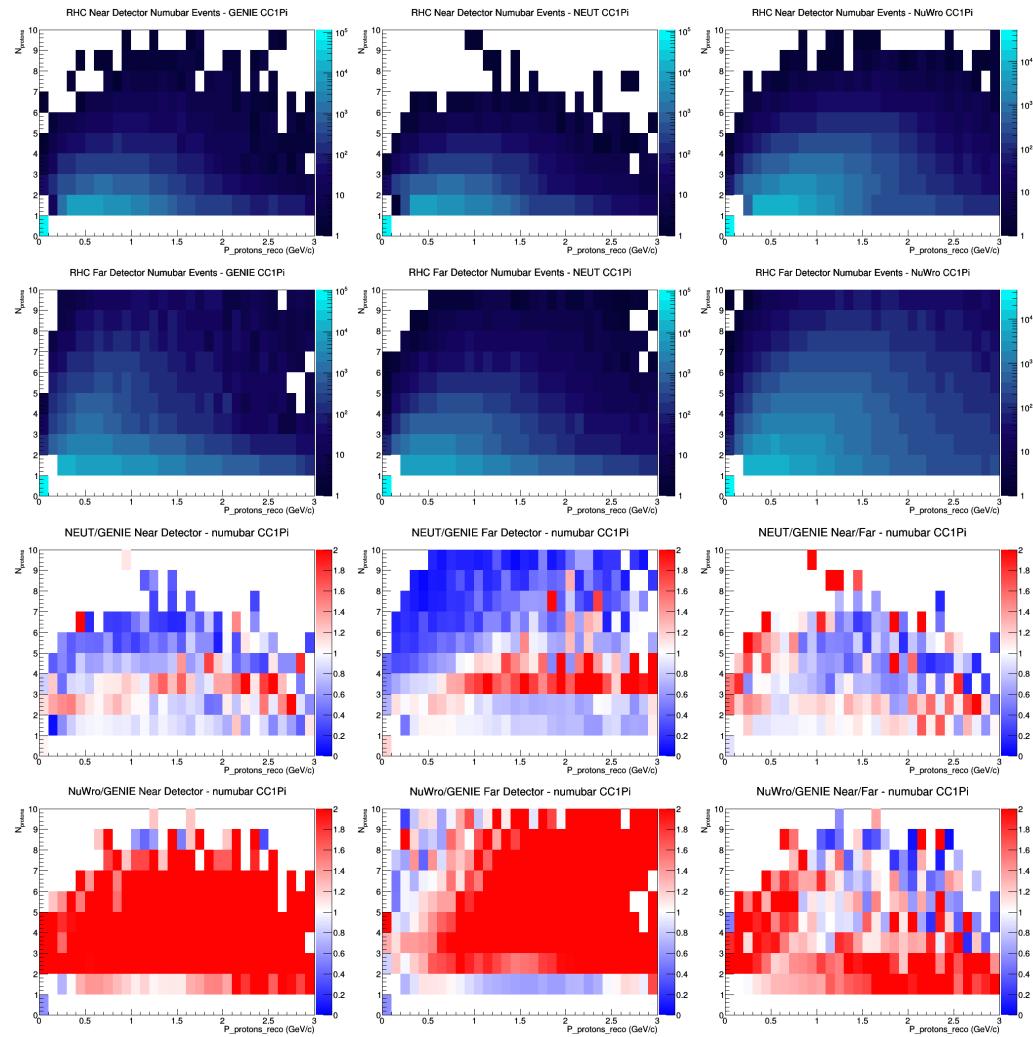
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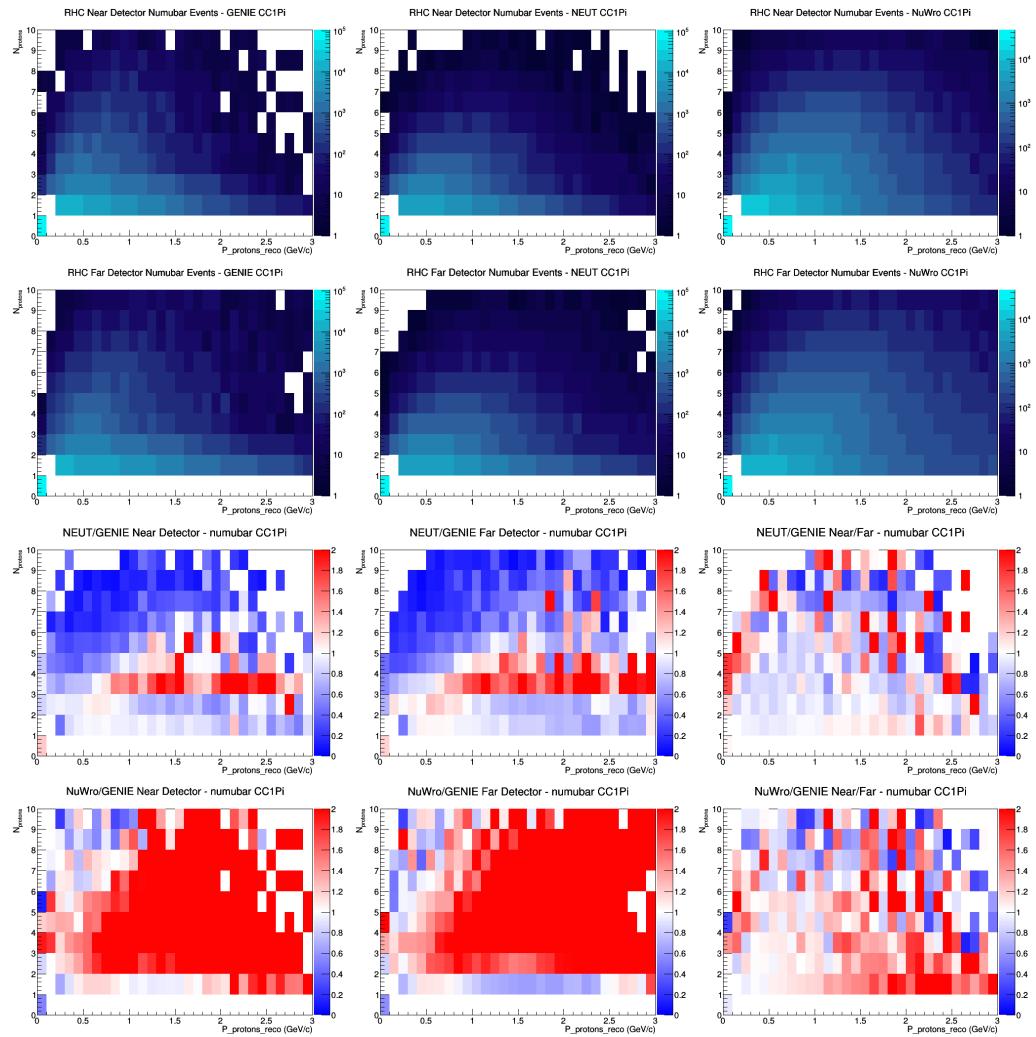
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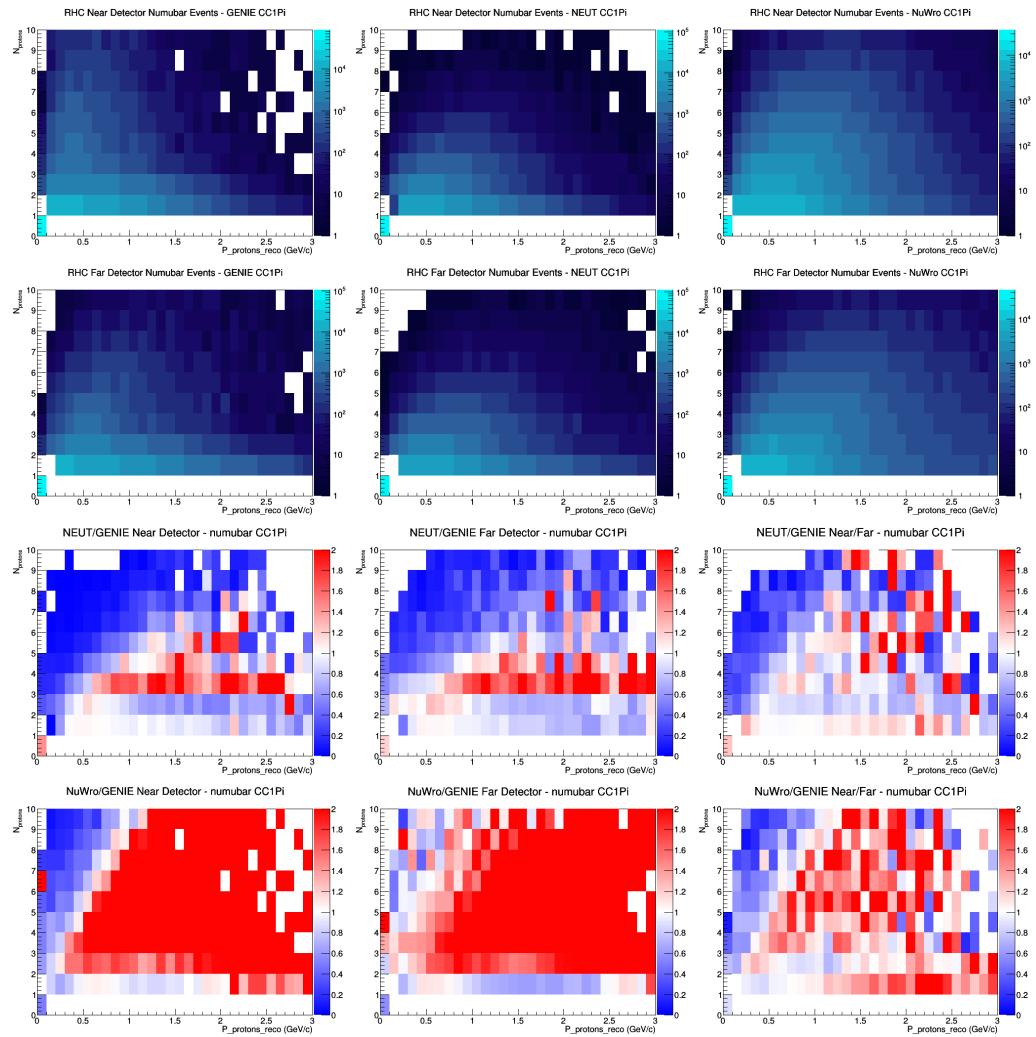
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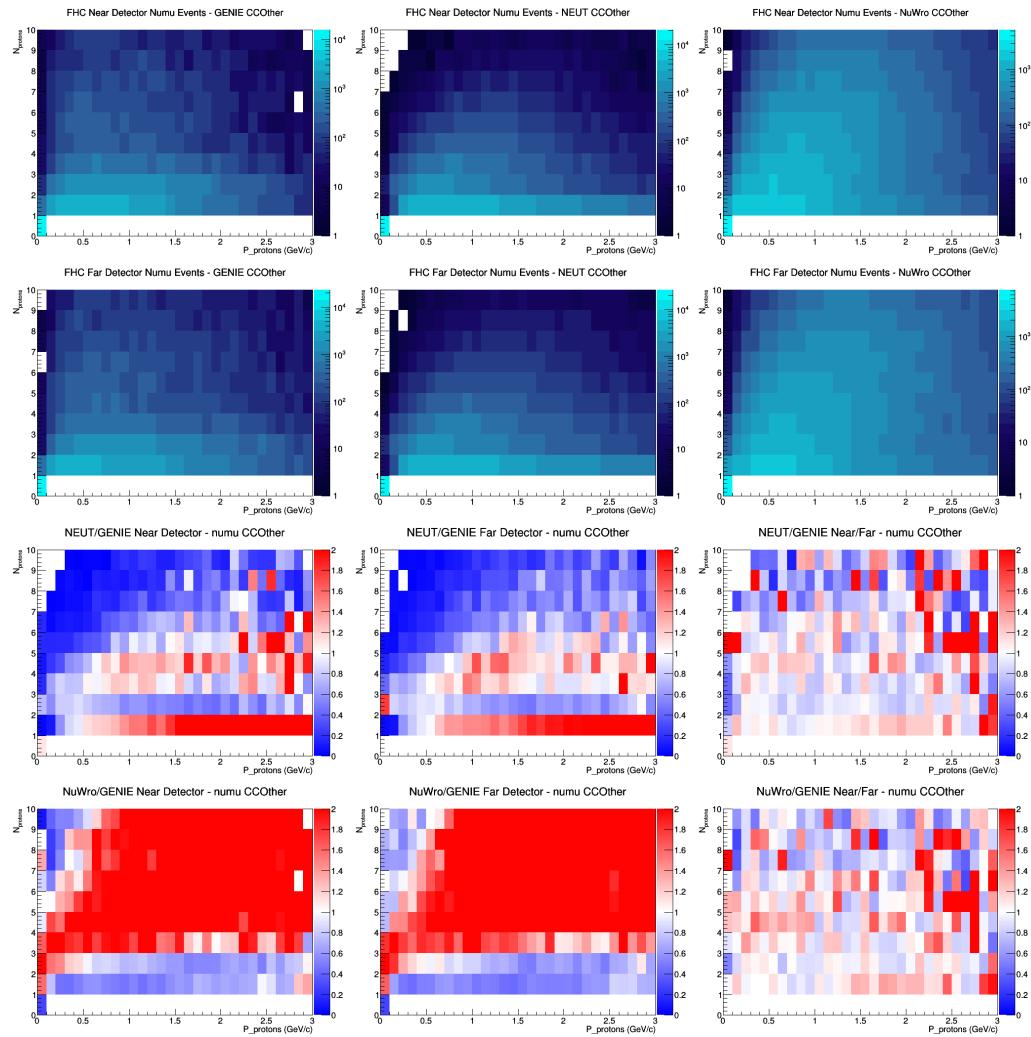
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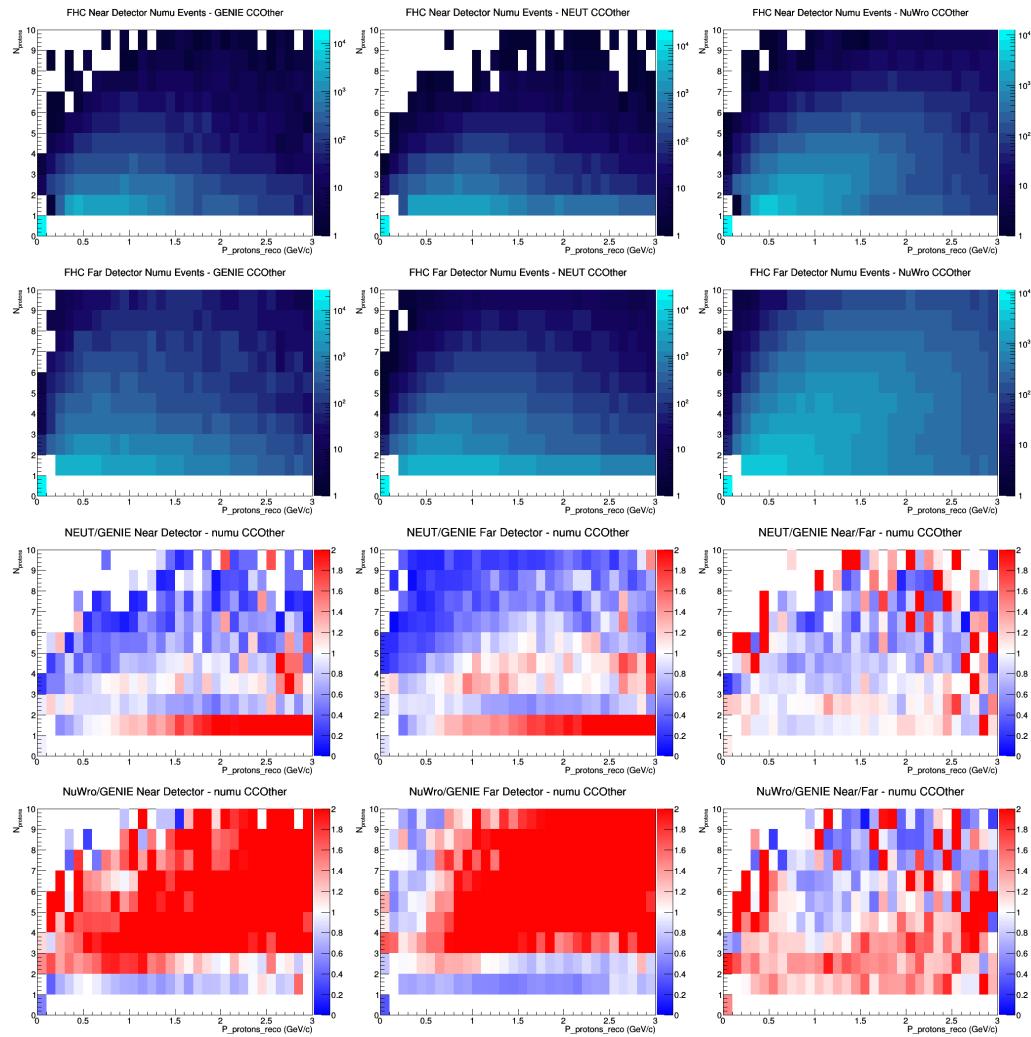
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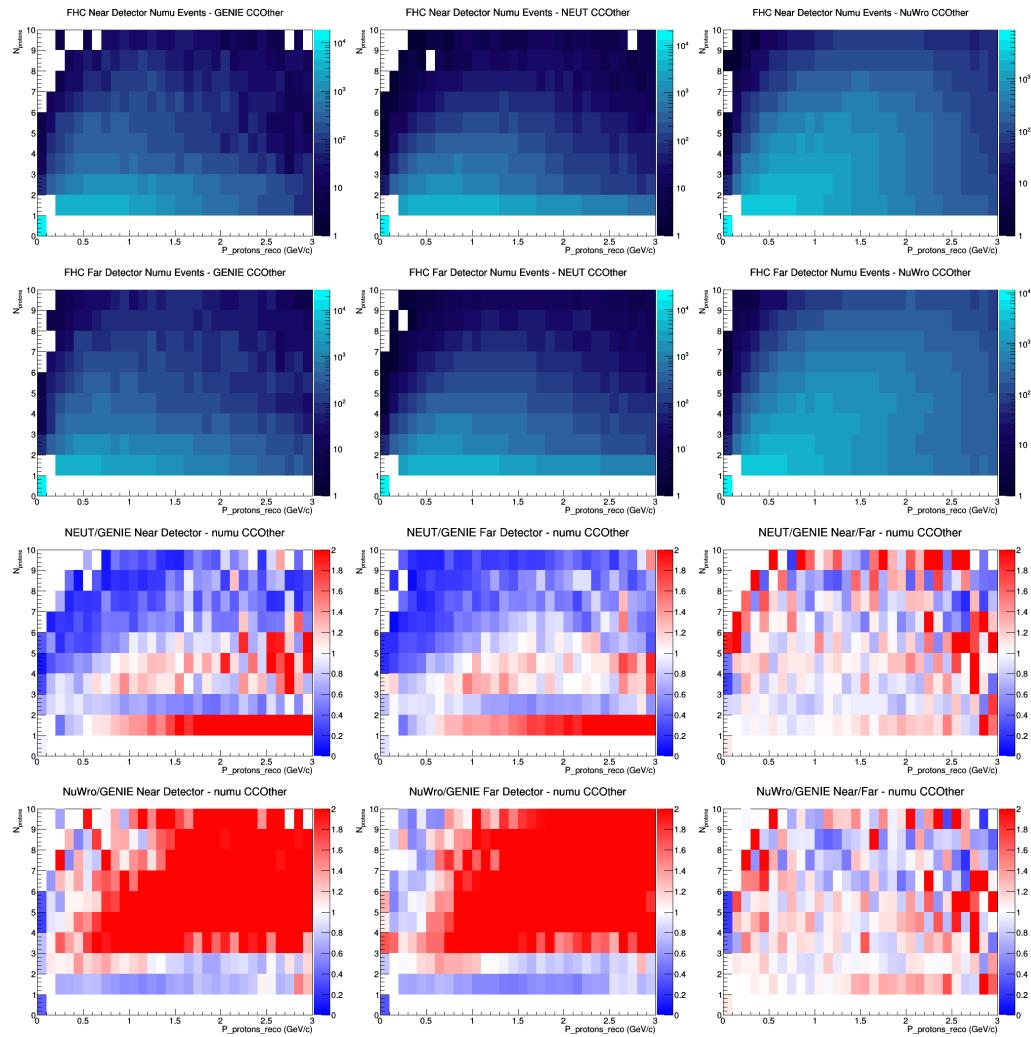
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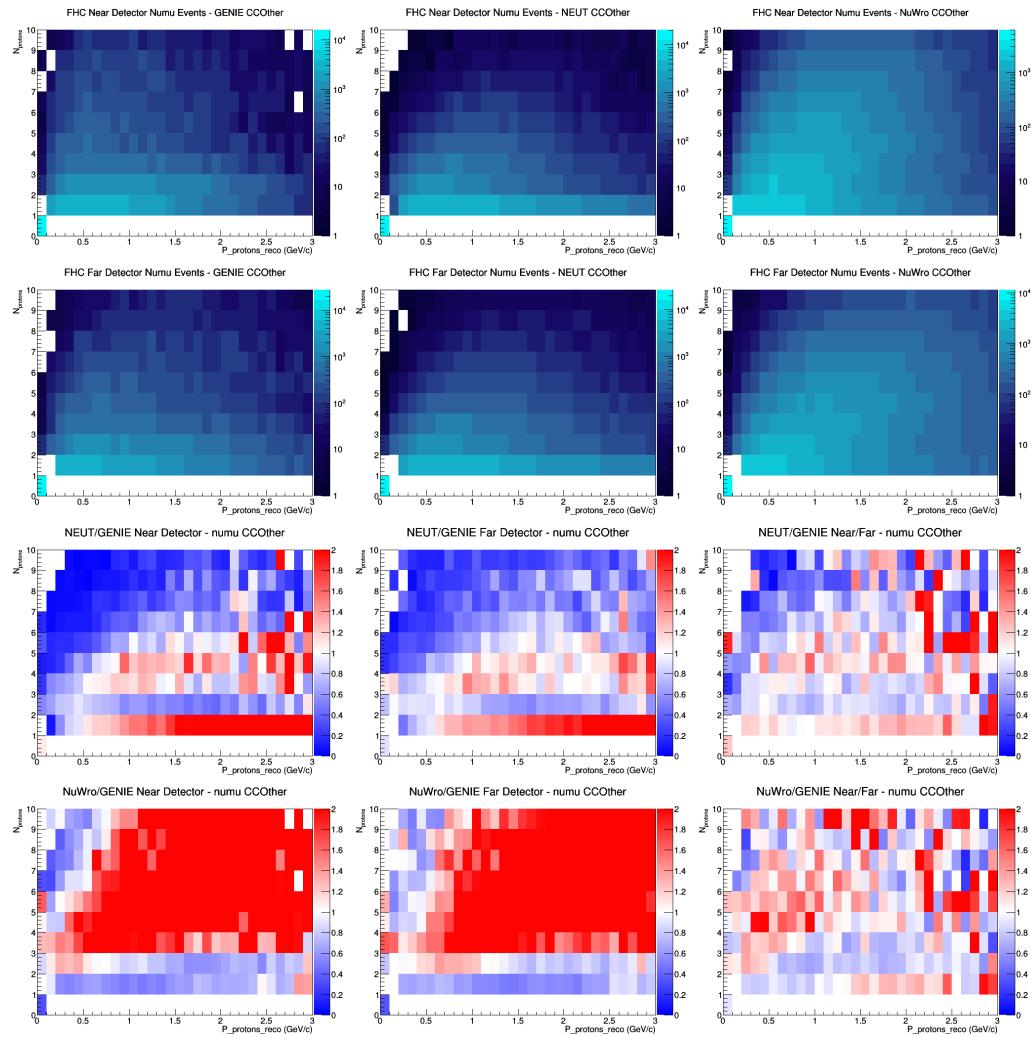
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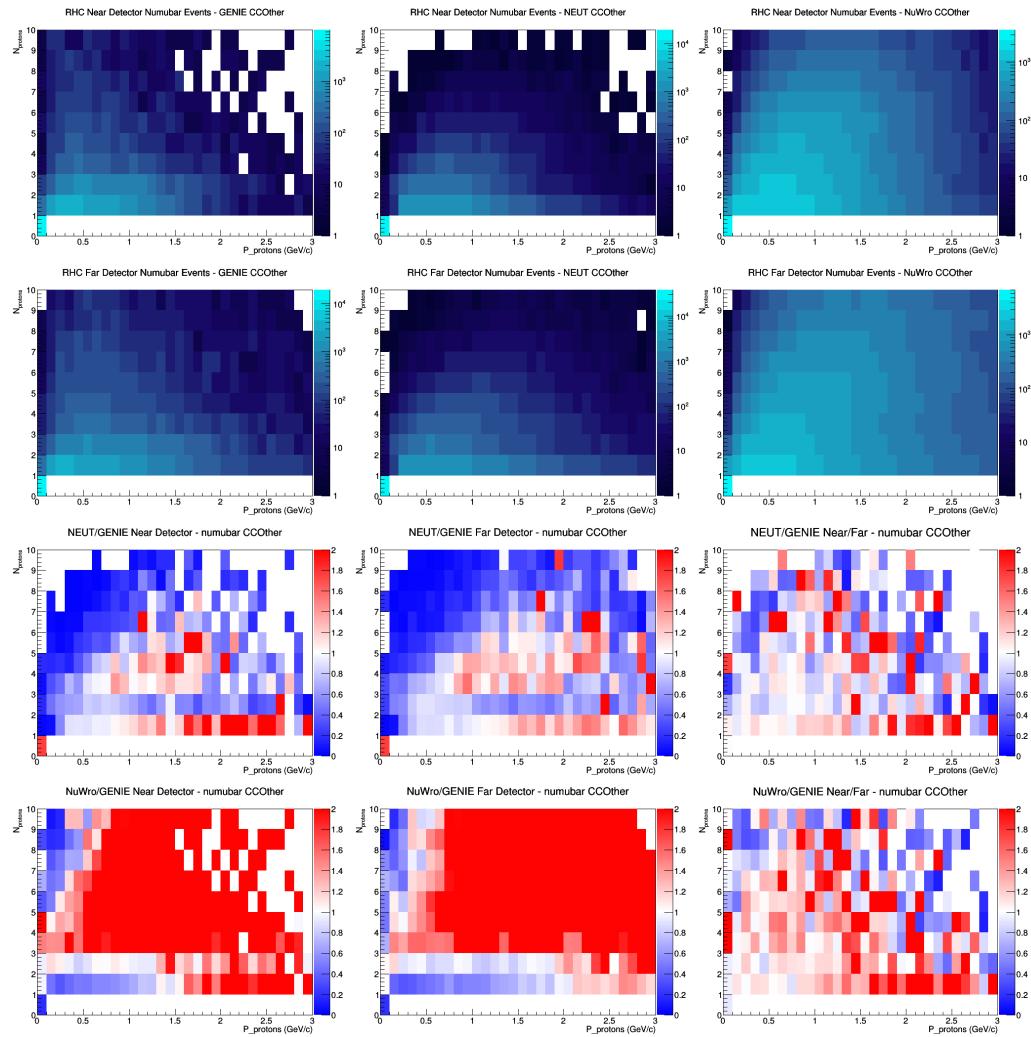
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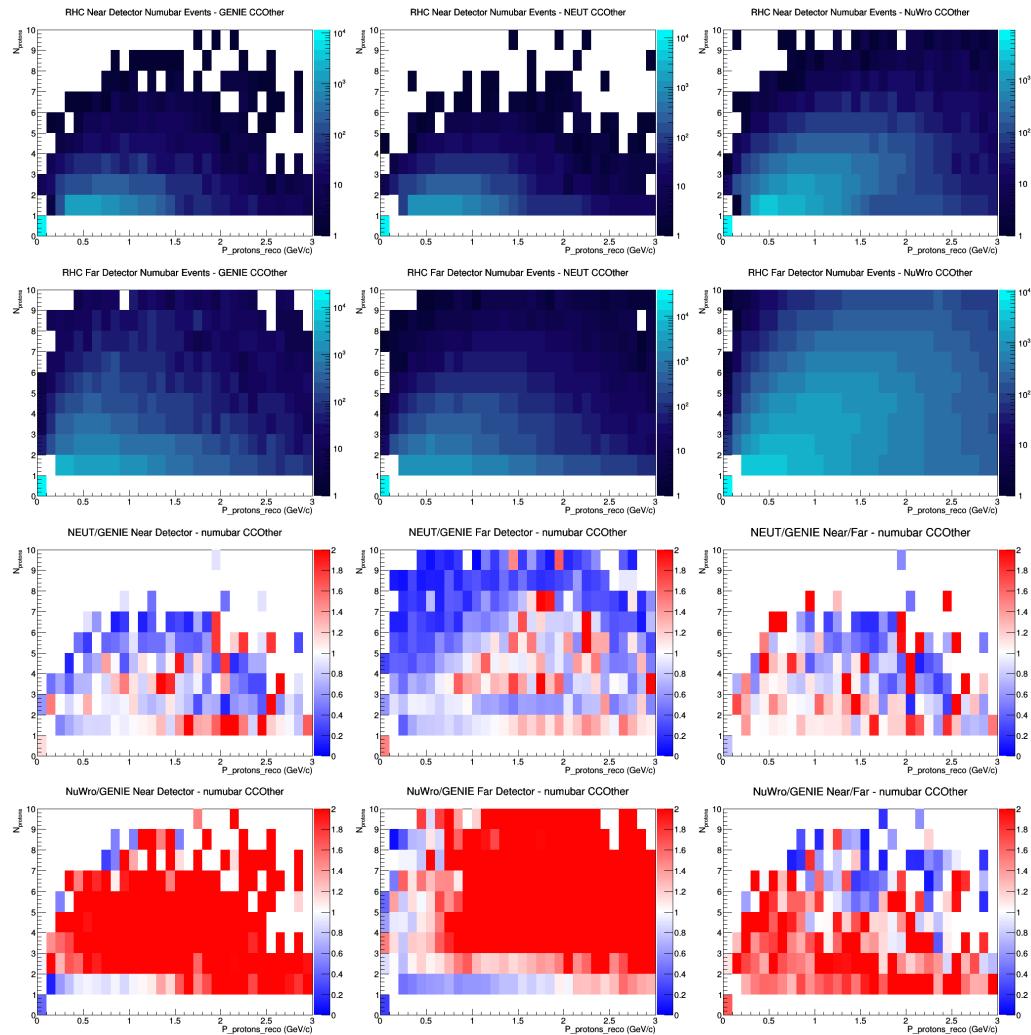
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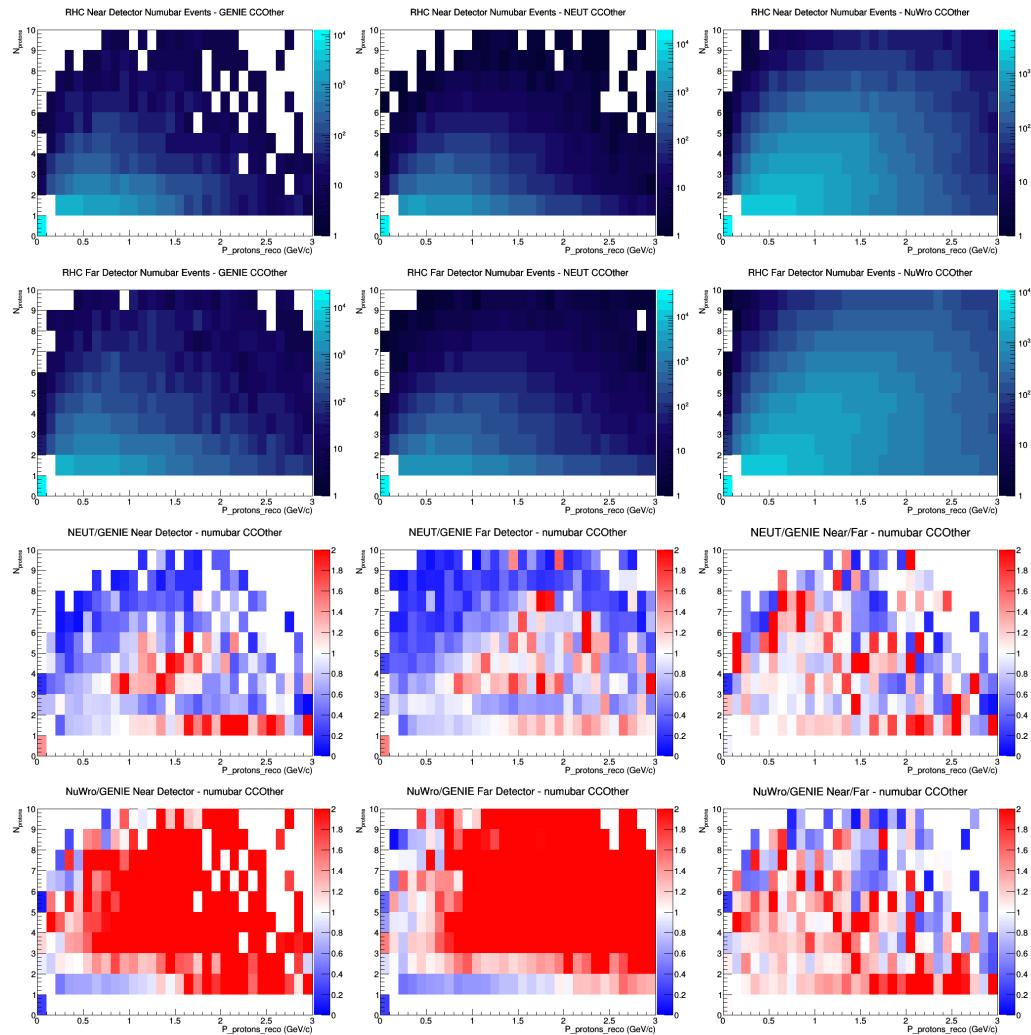
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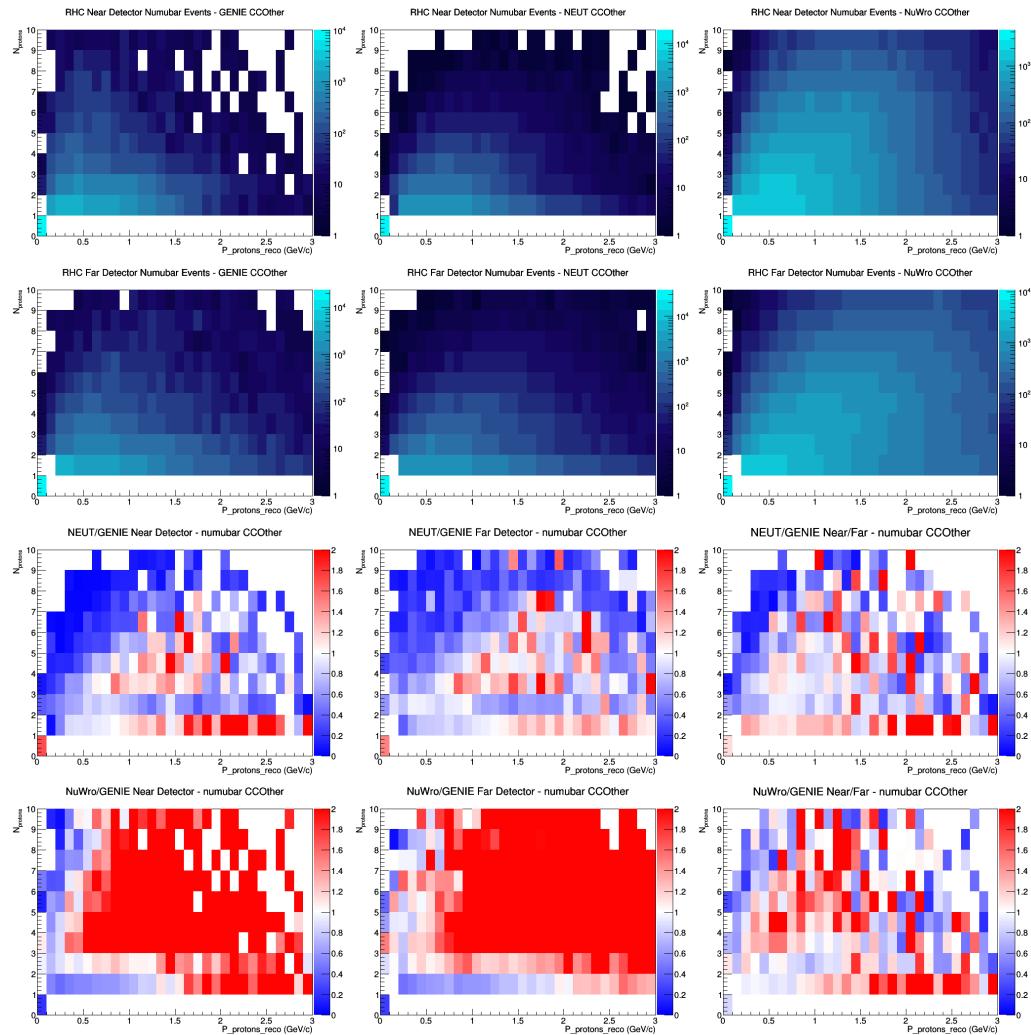
2.38 numubar CCOther FGT efficiencies



2.39 numubar CCOther LAr efficiencies

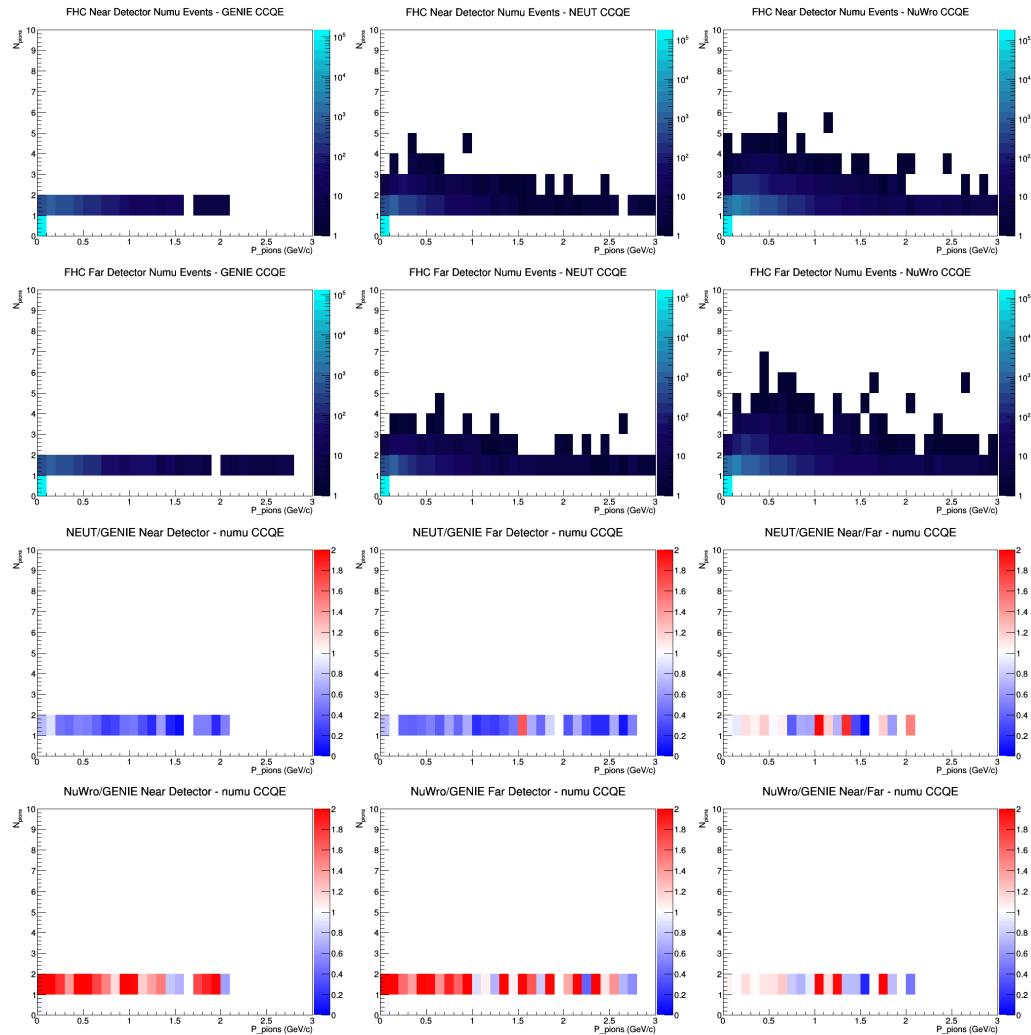


2.40 numubar CCOther GAr efficiencies

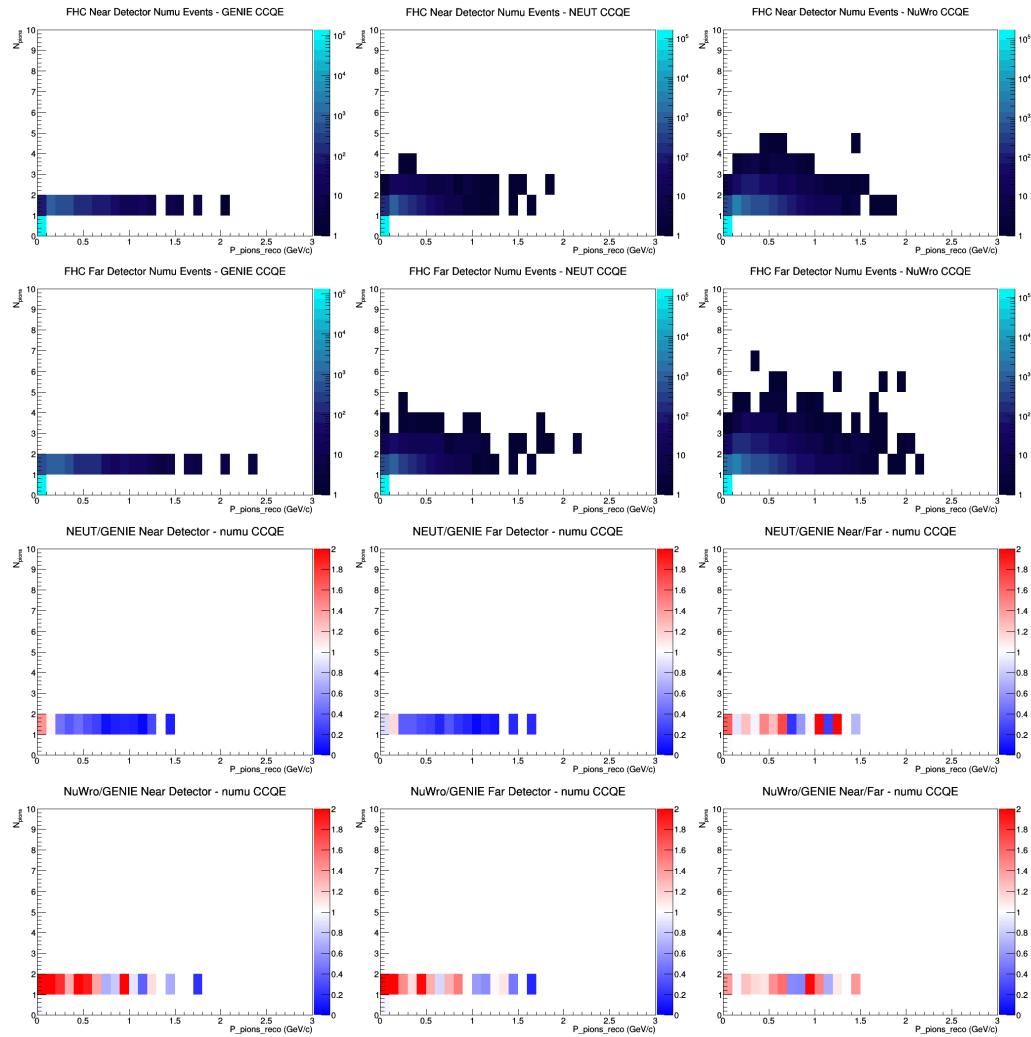


3 N vs. P - Pions Plots

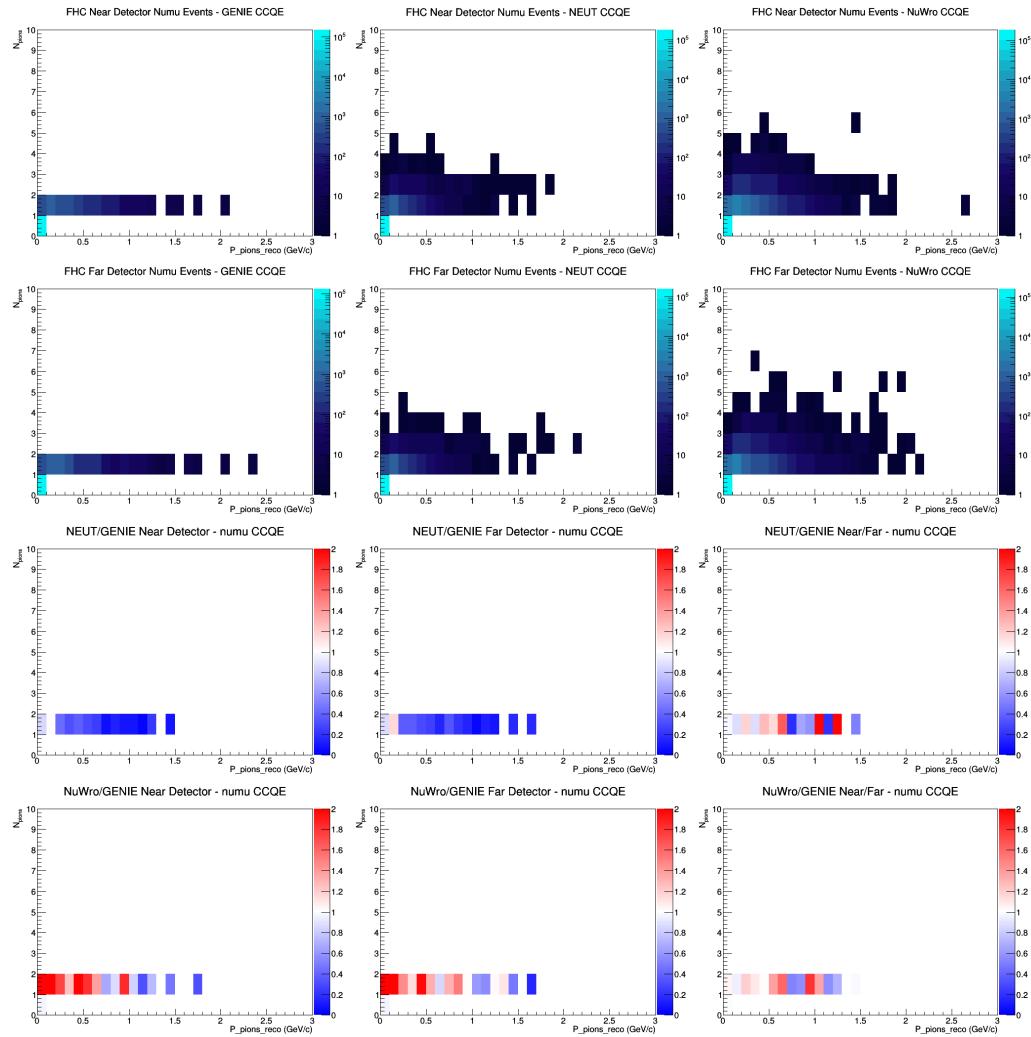
3.1 numu CCQE no efficiencies



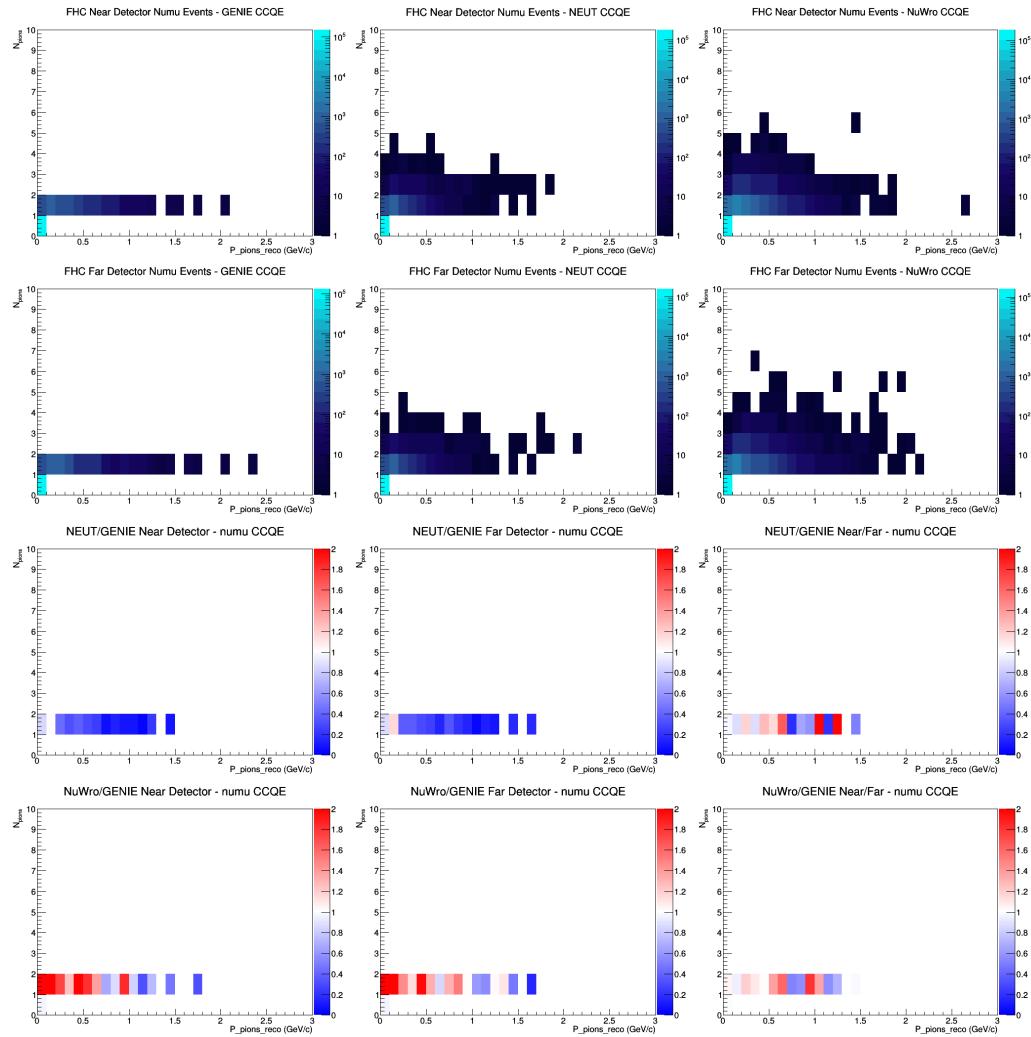
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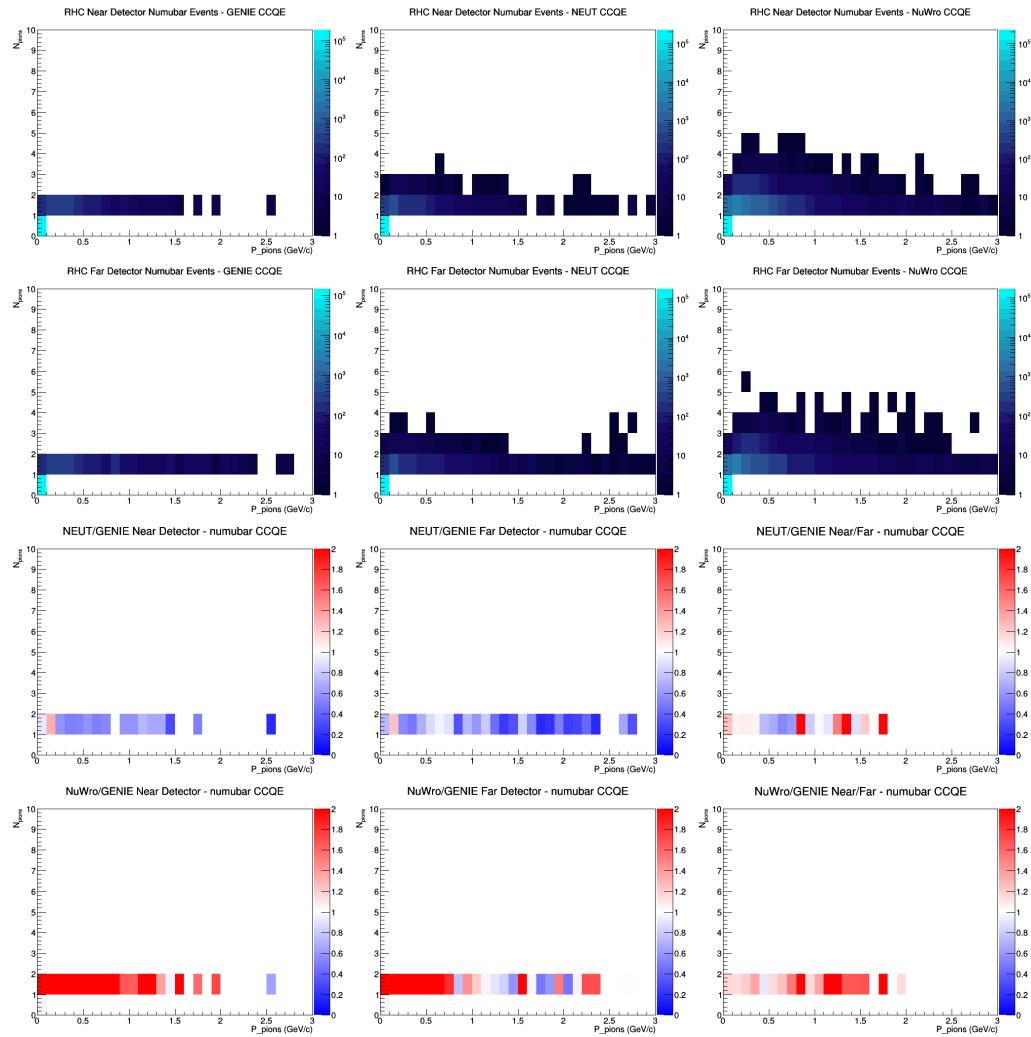
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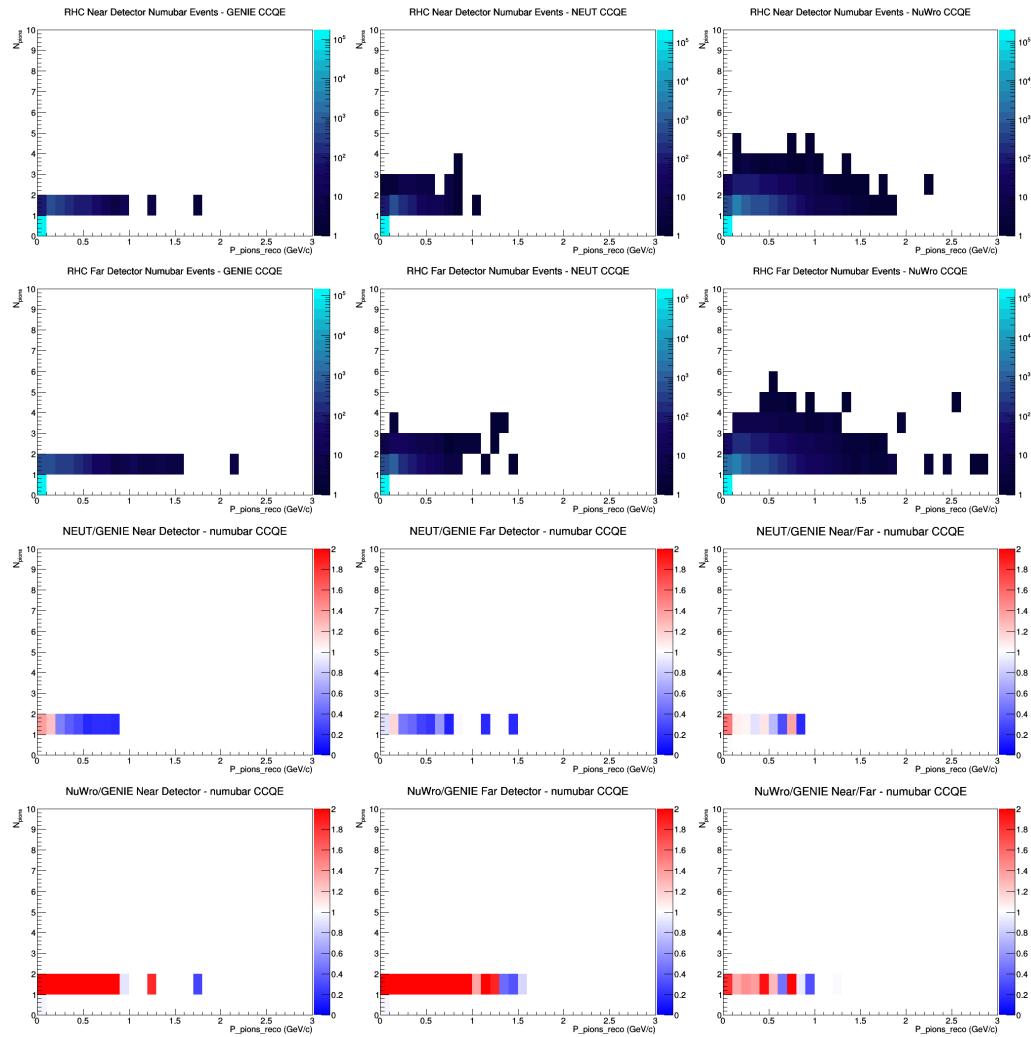
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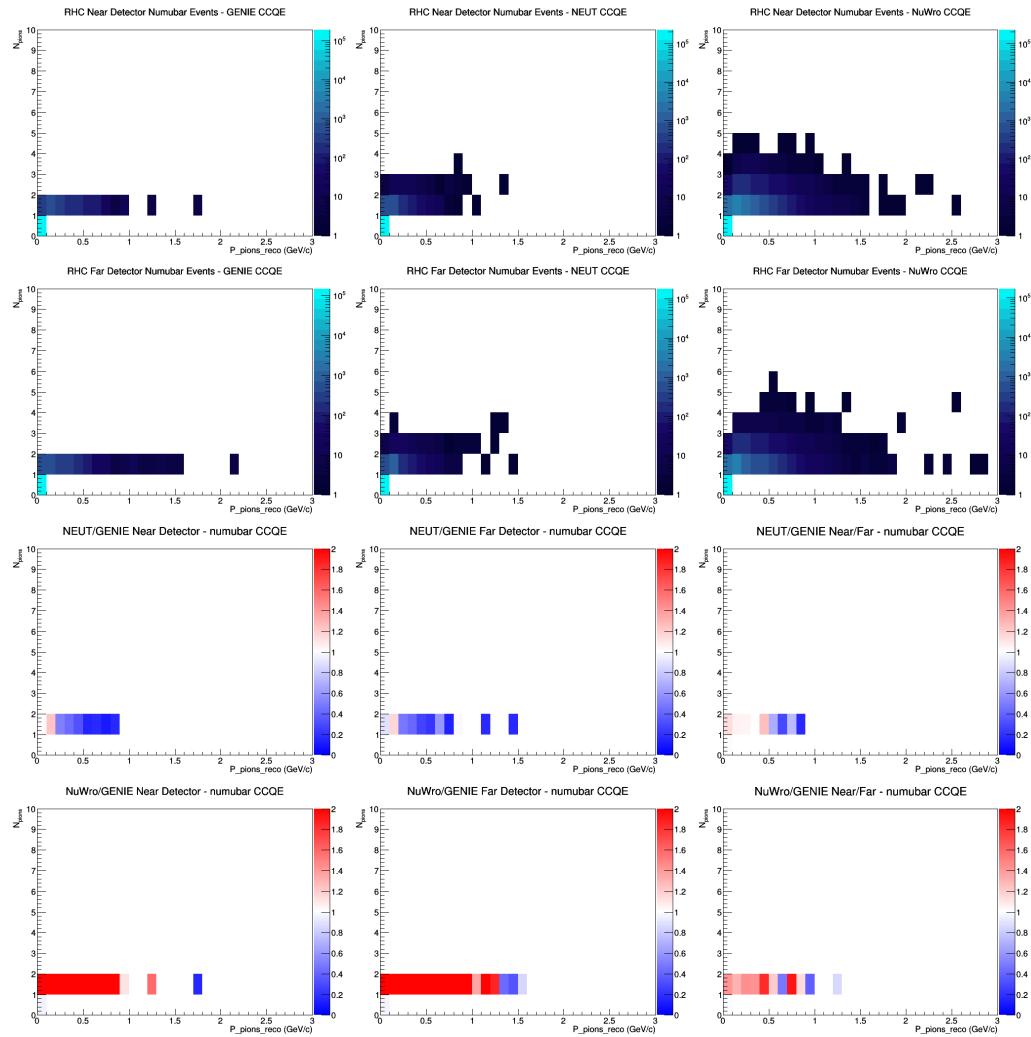
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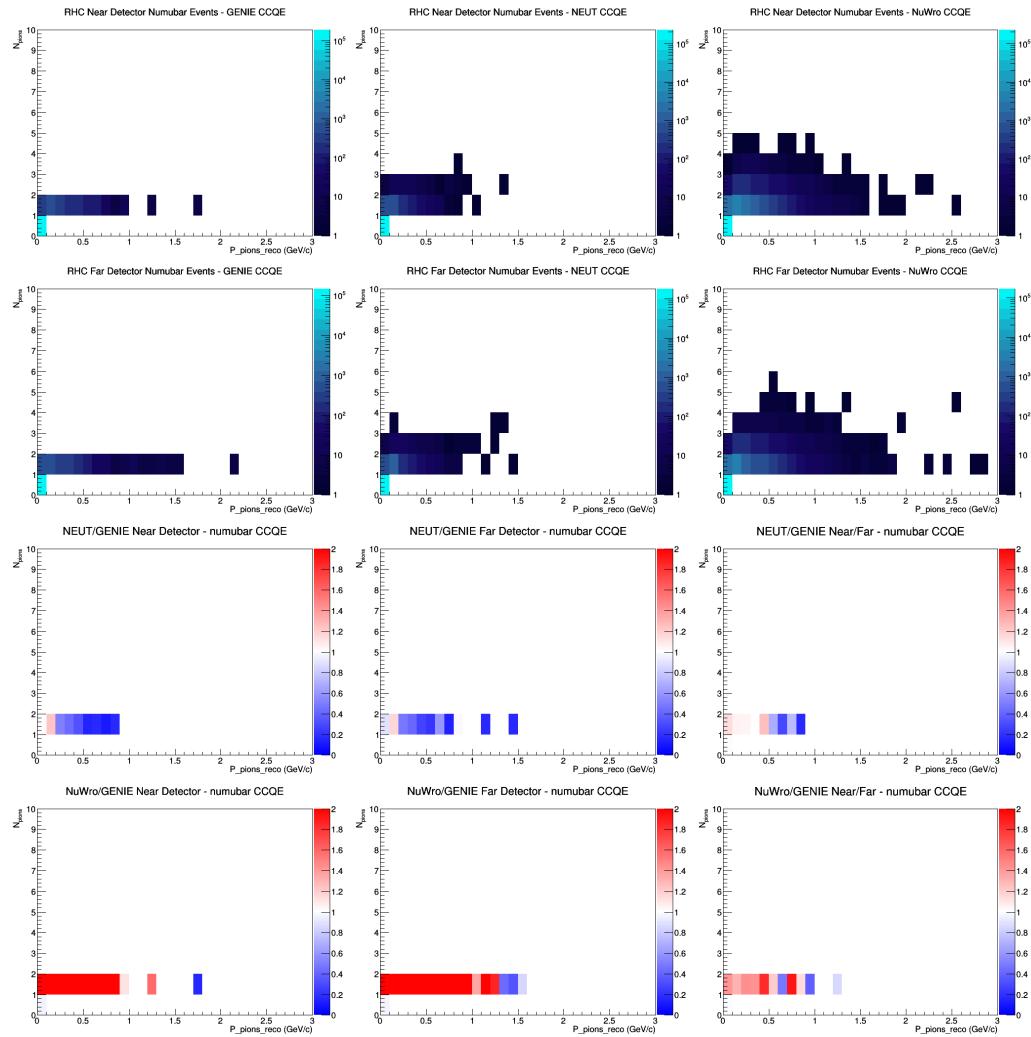
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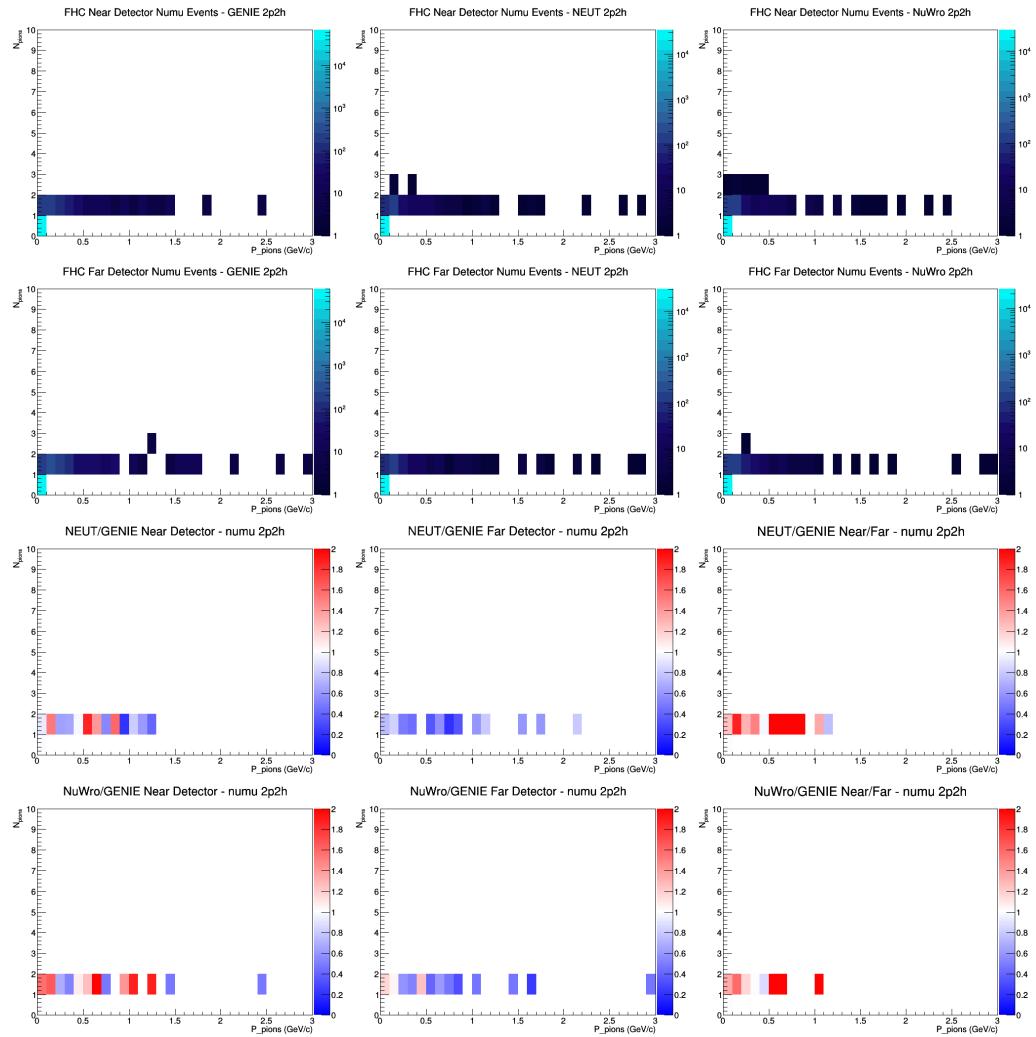
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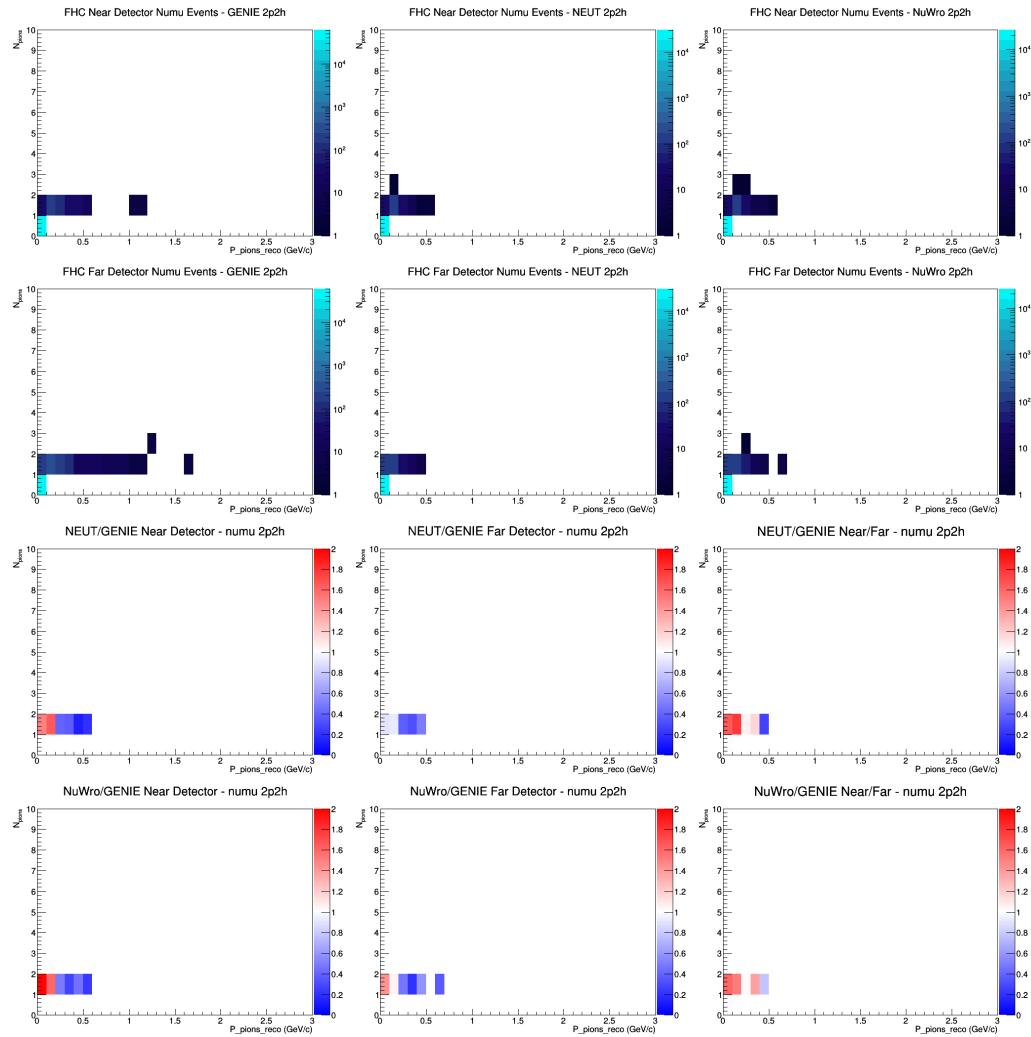
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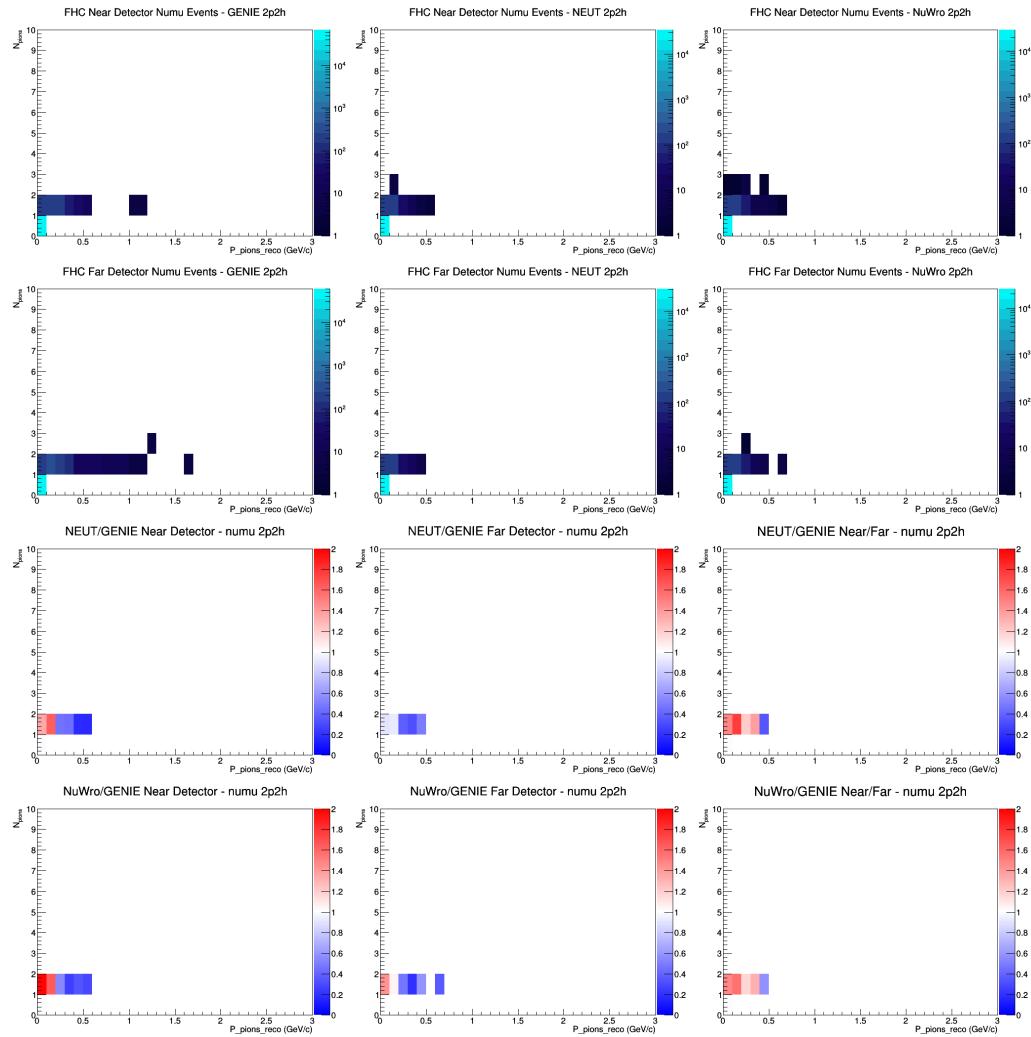
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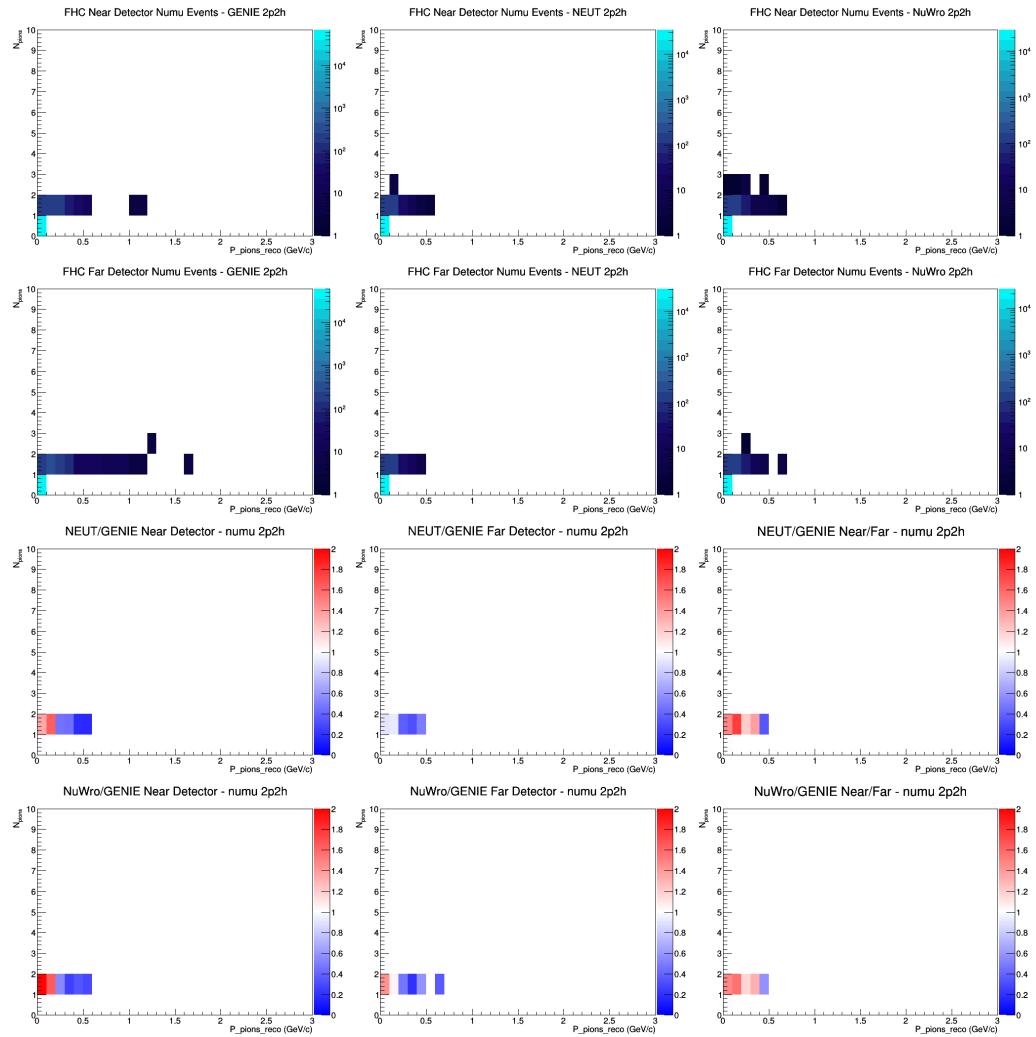
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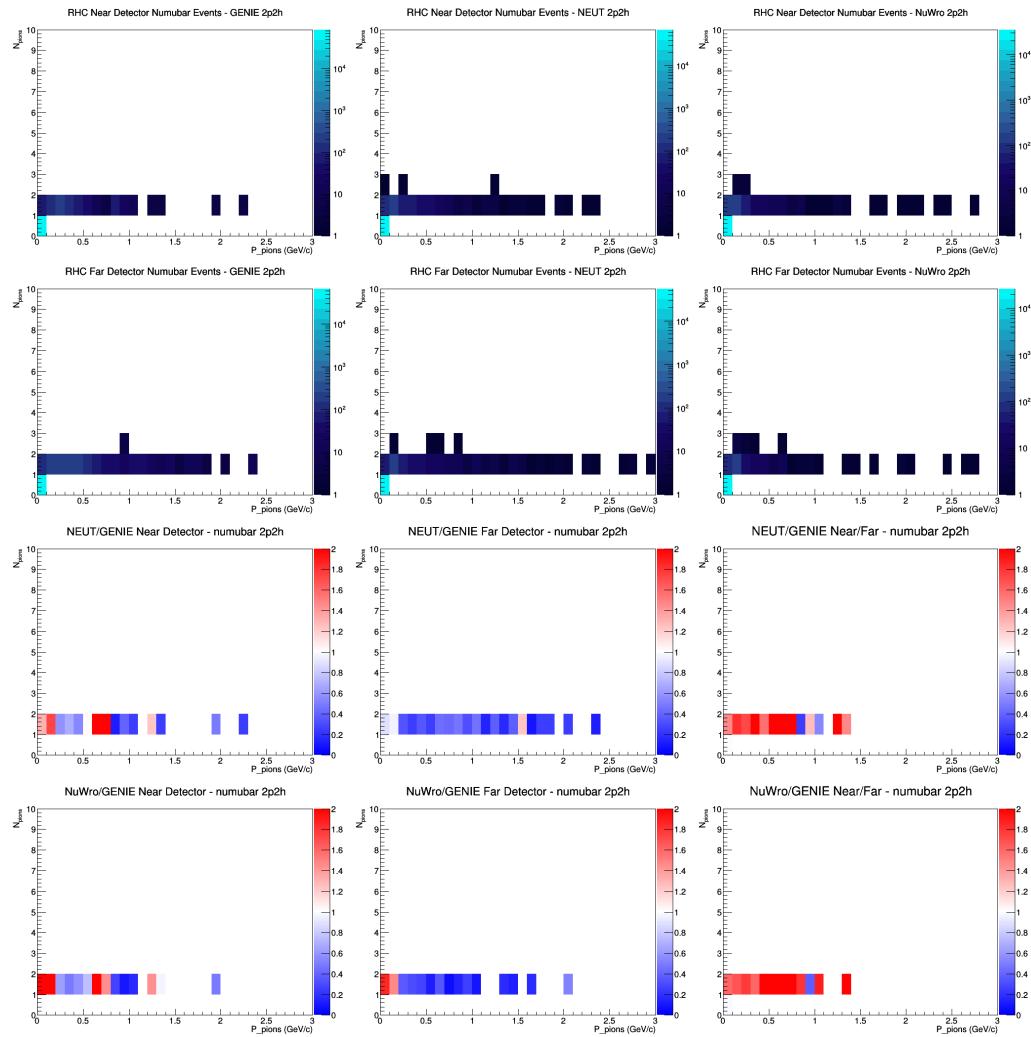
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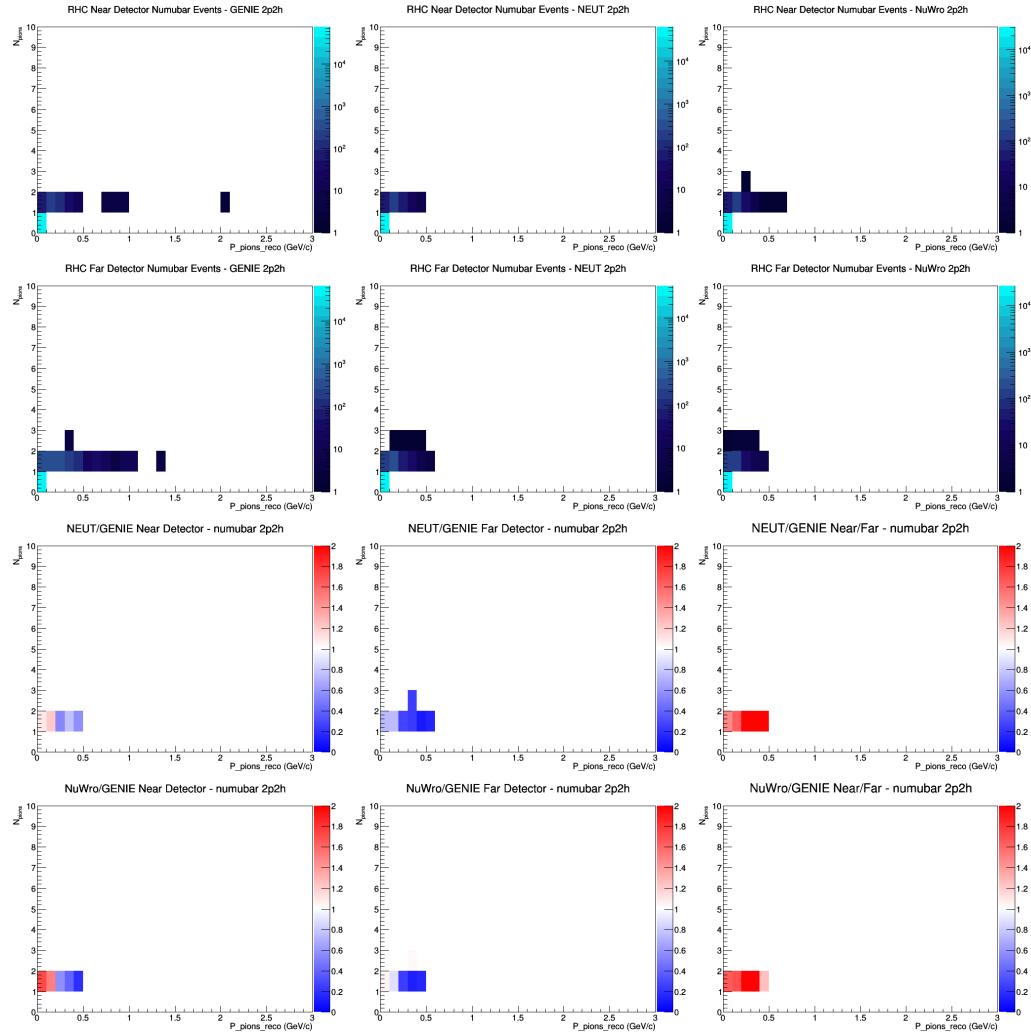
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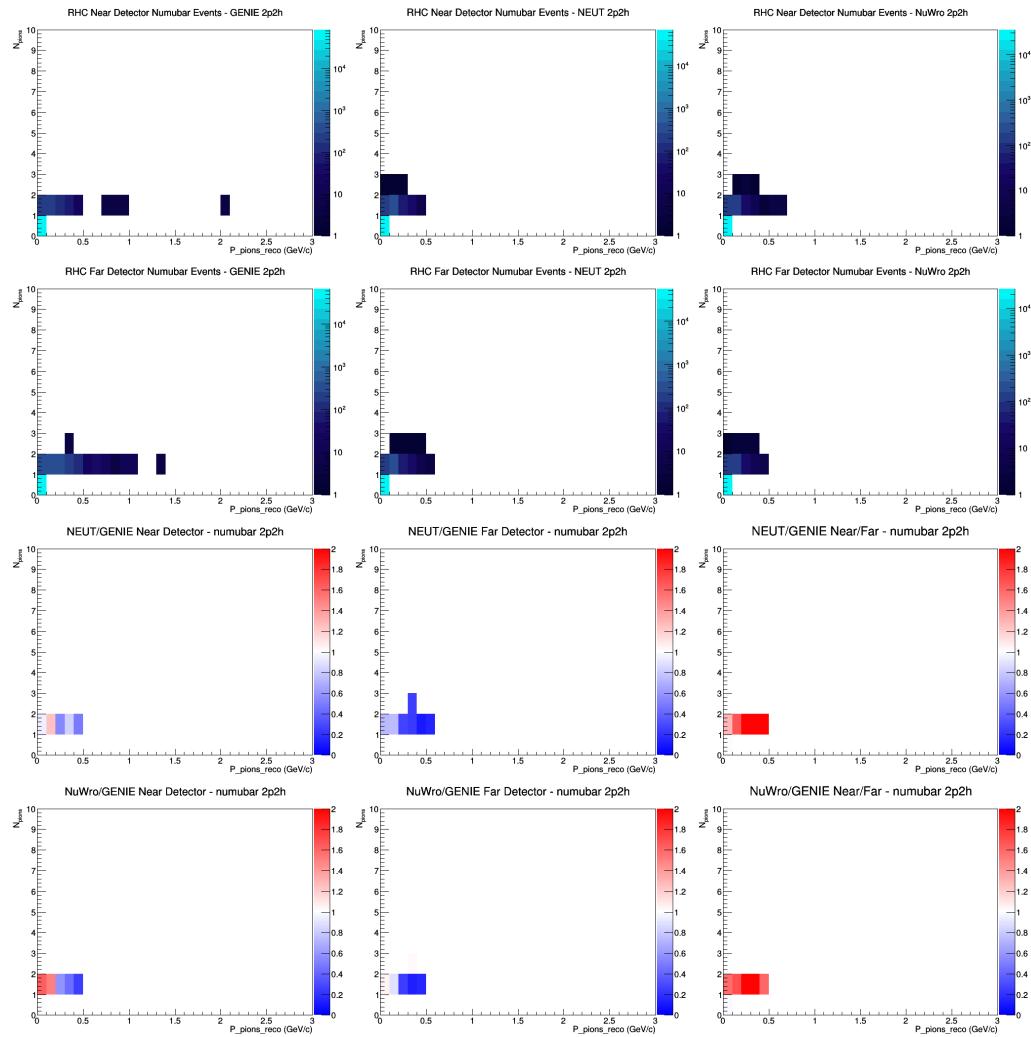
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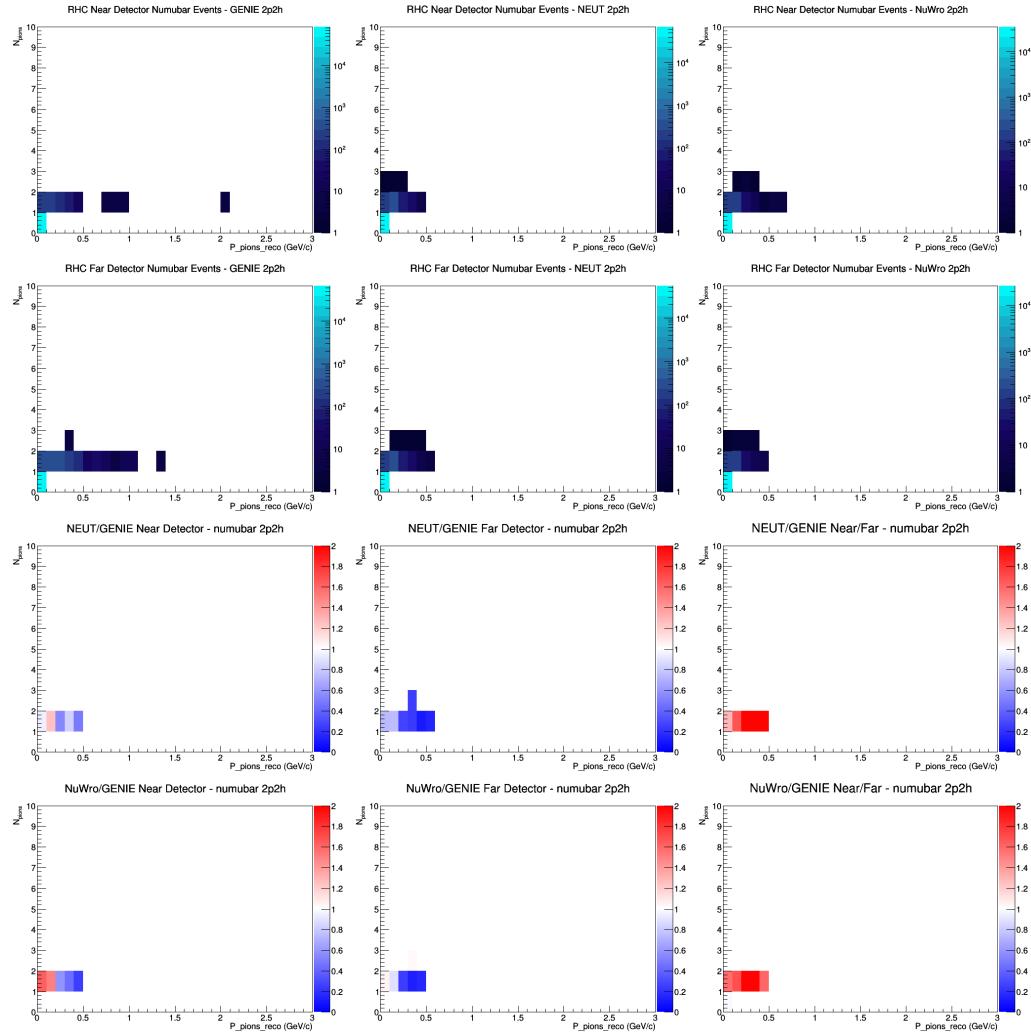
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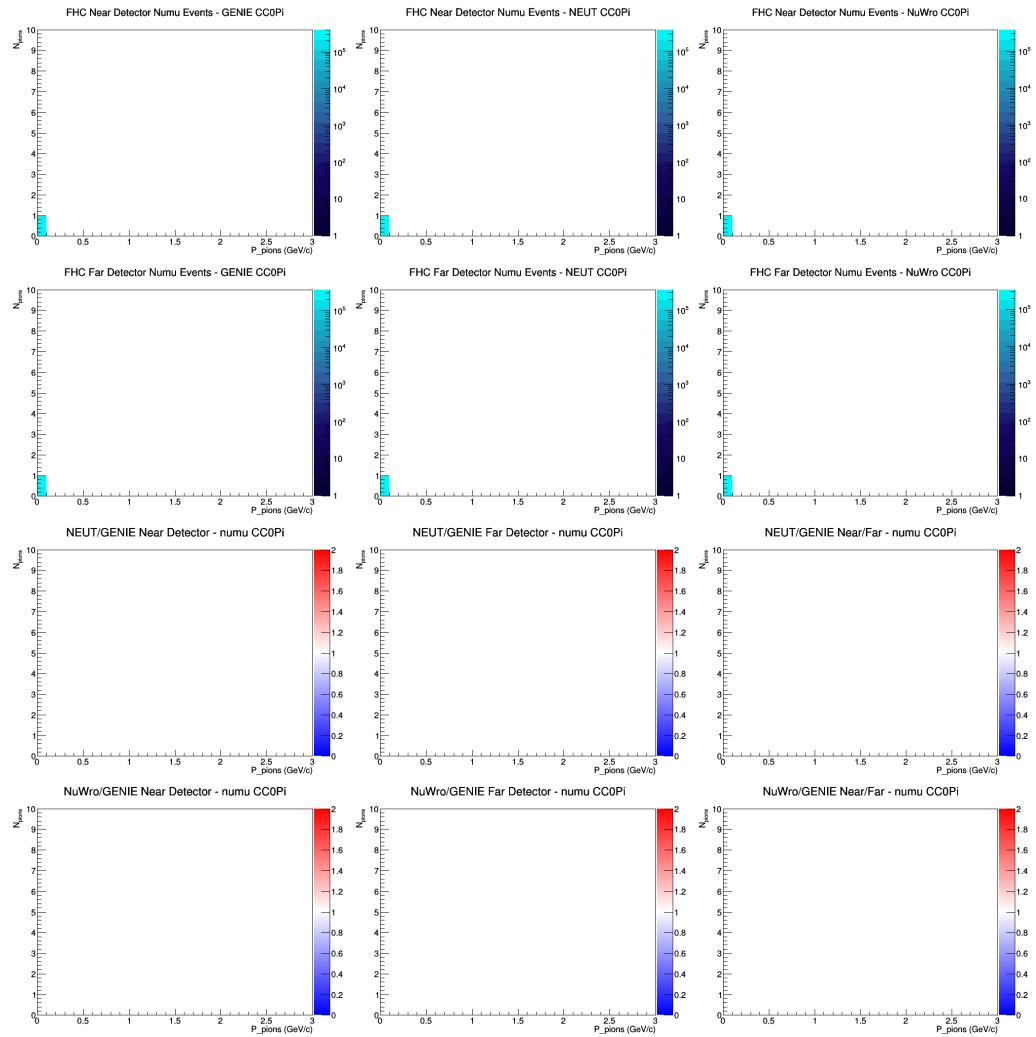
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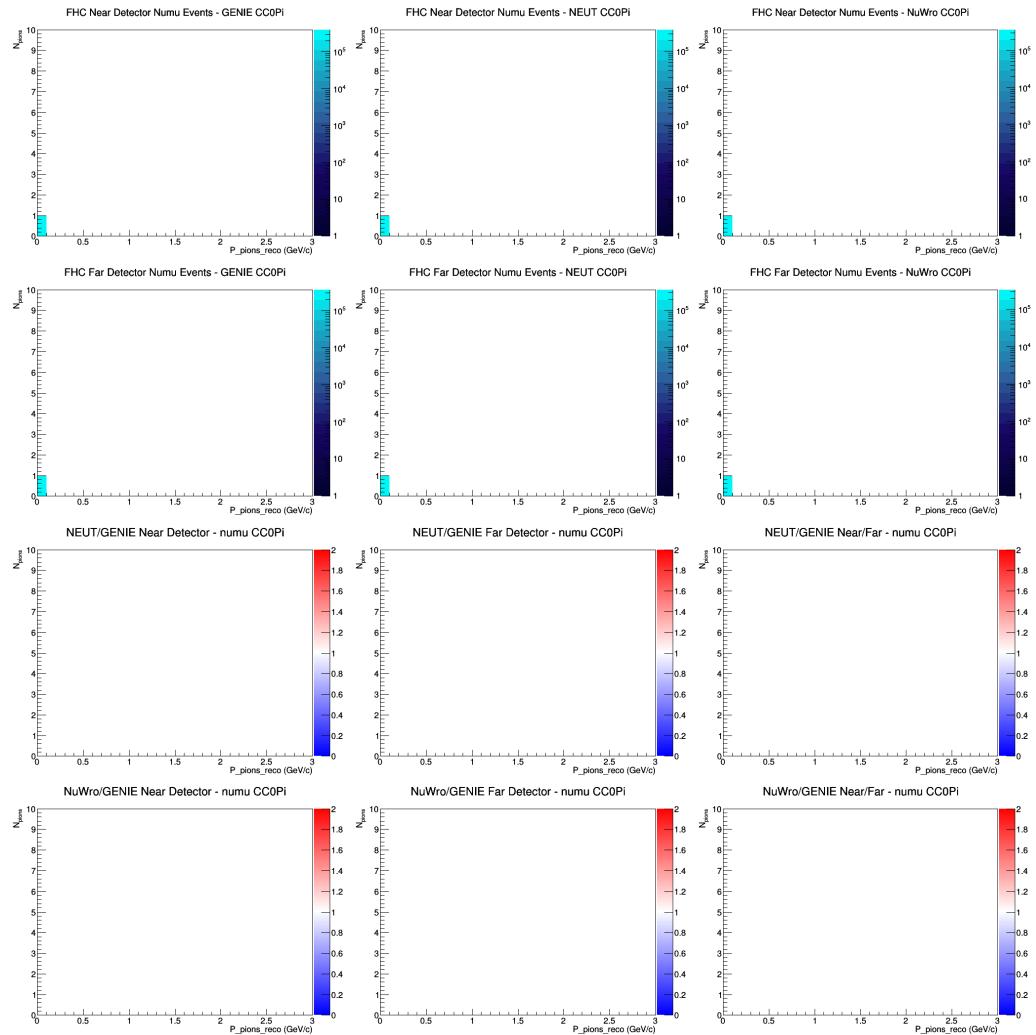
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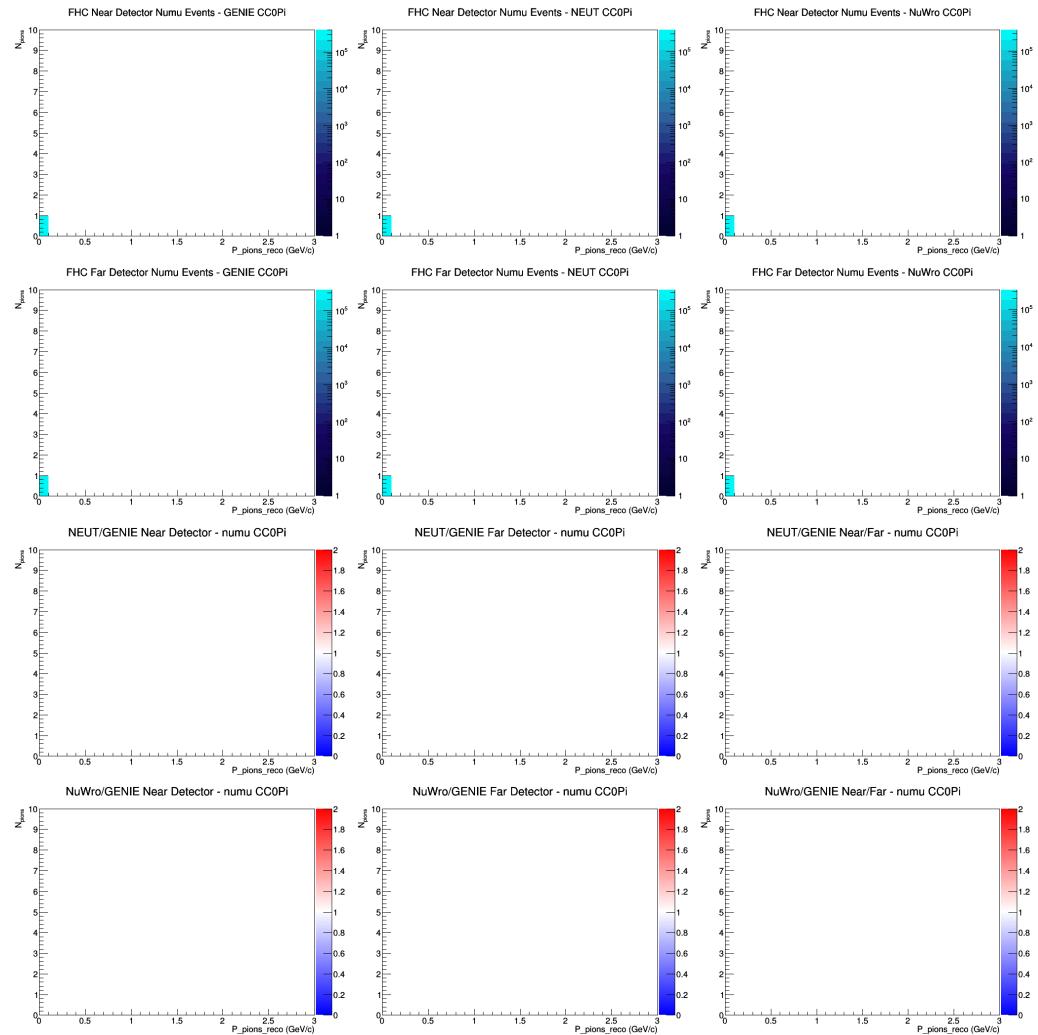
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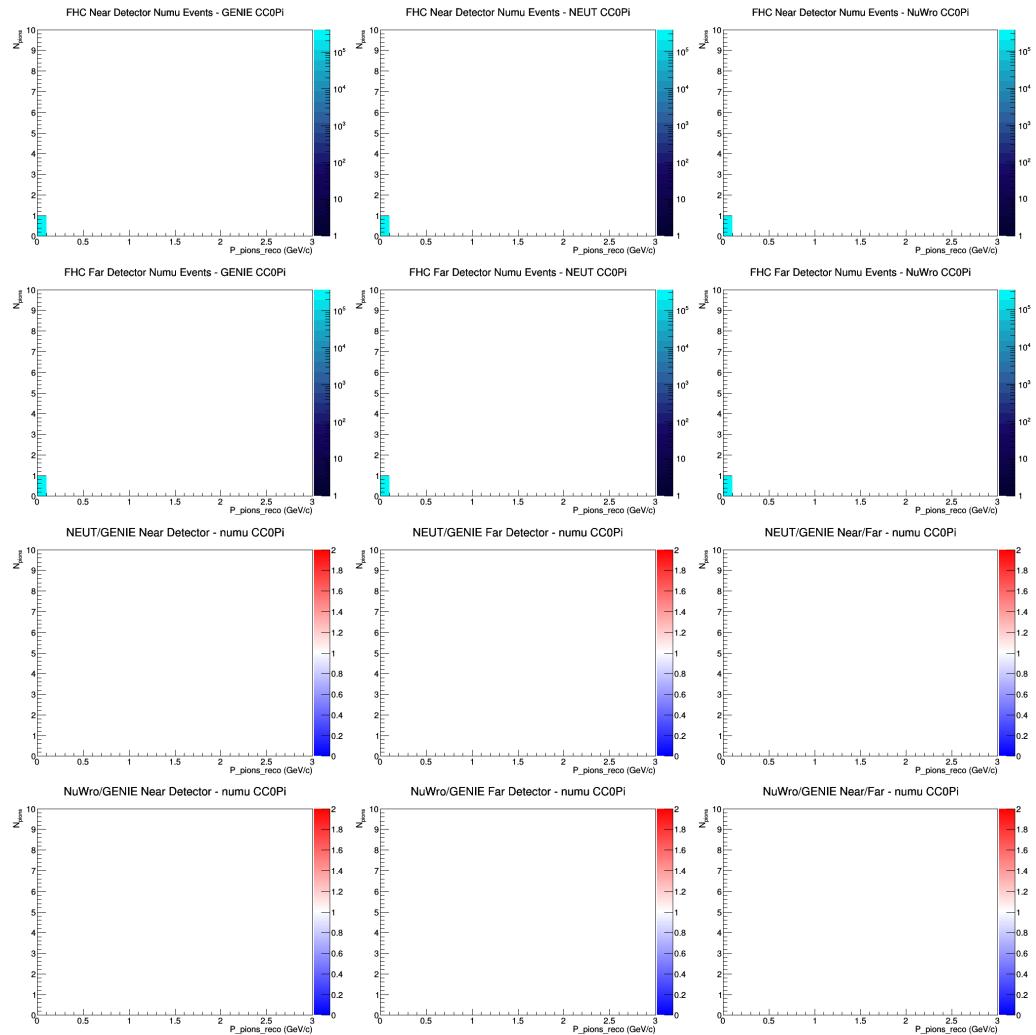
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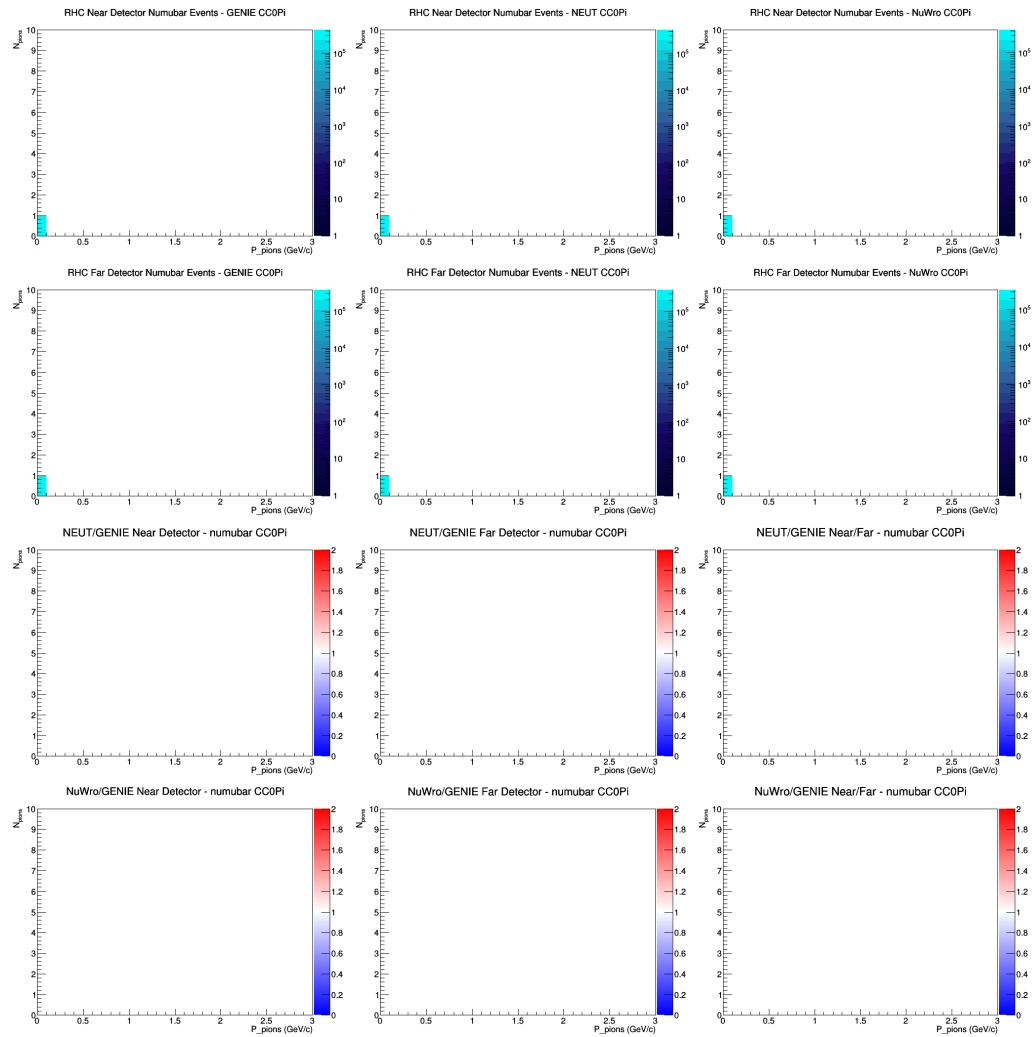
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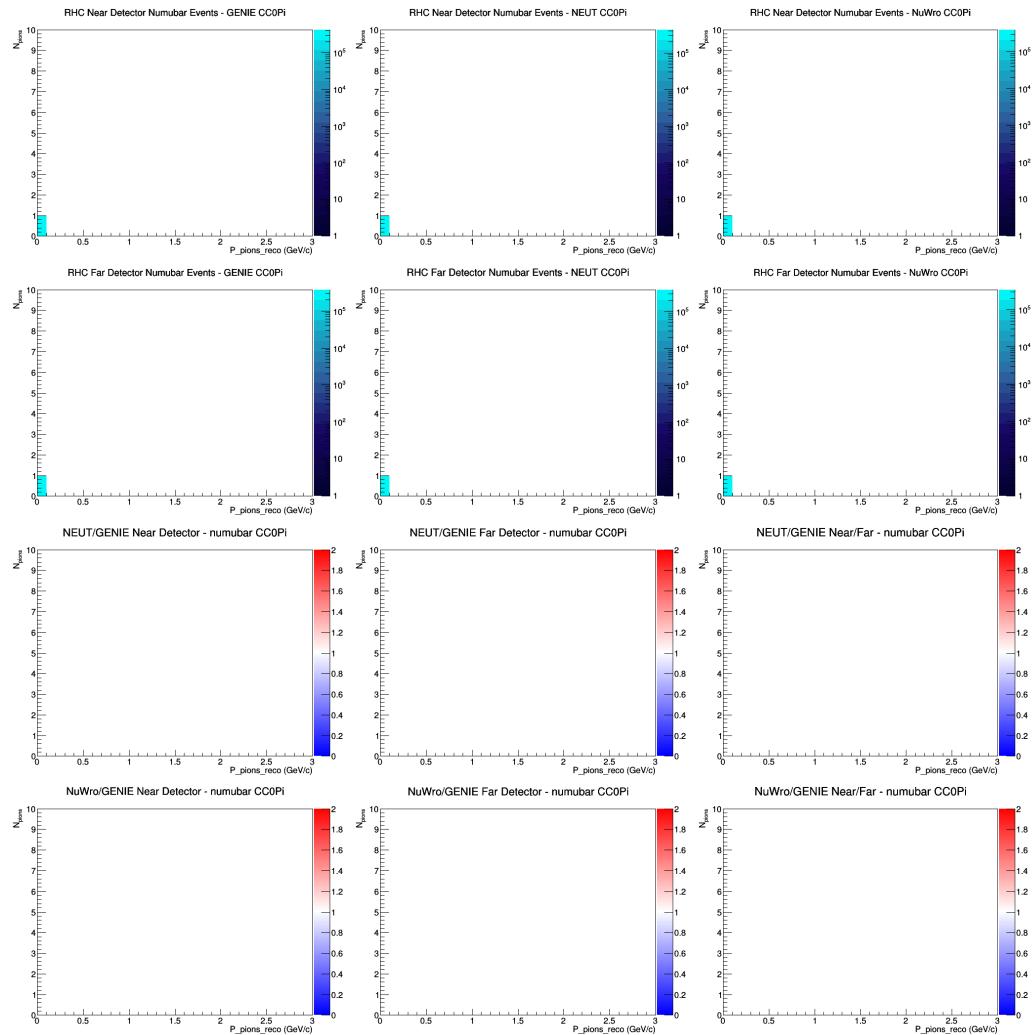
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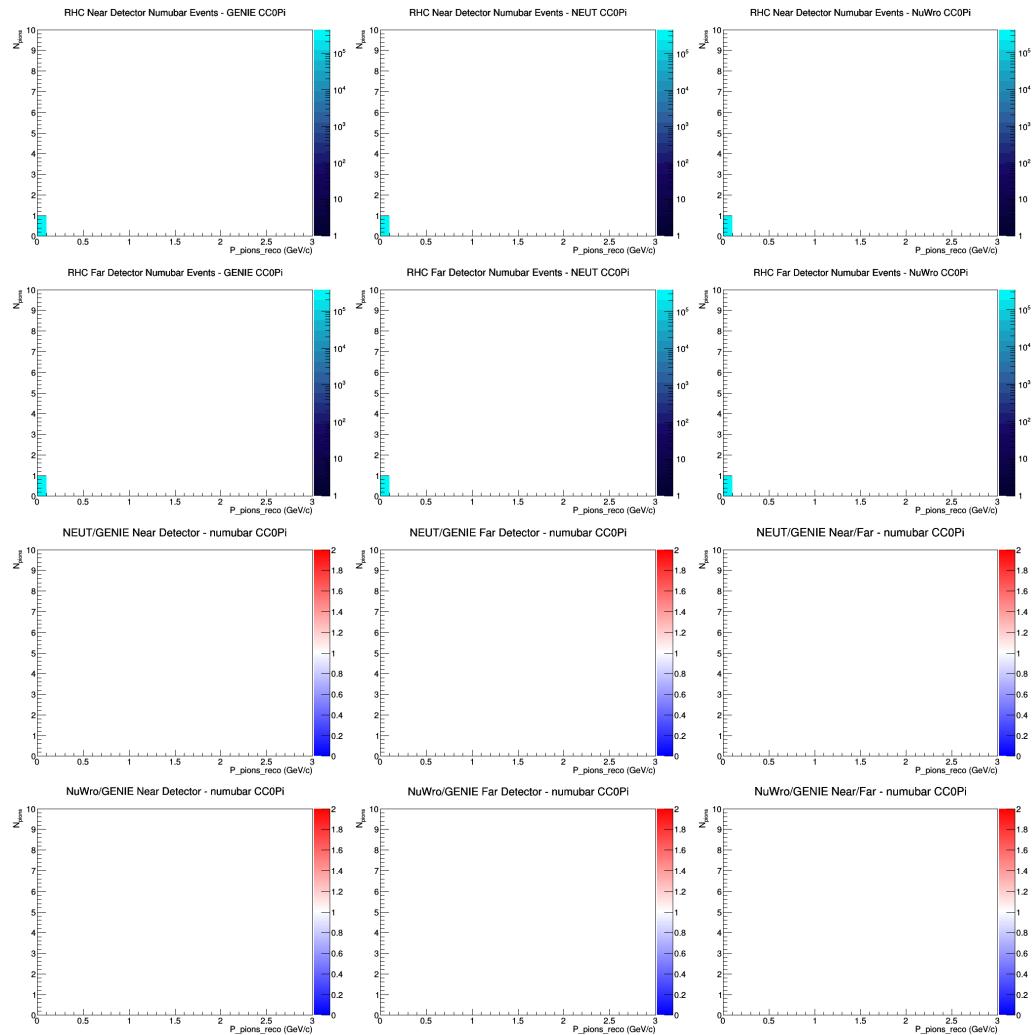
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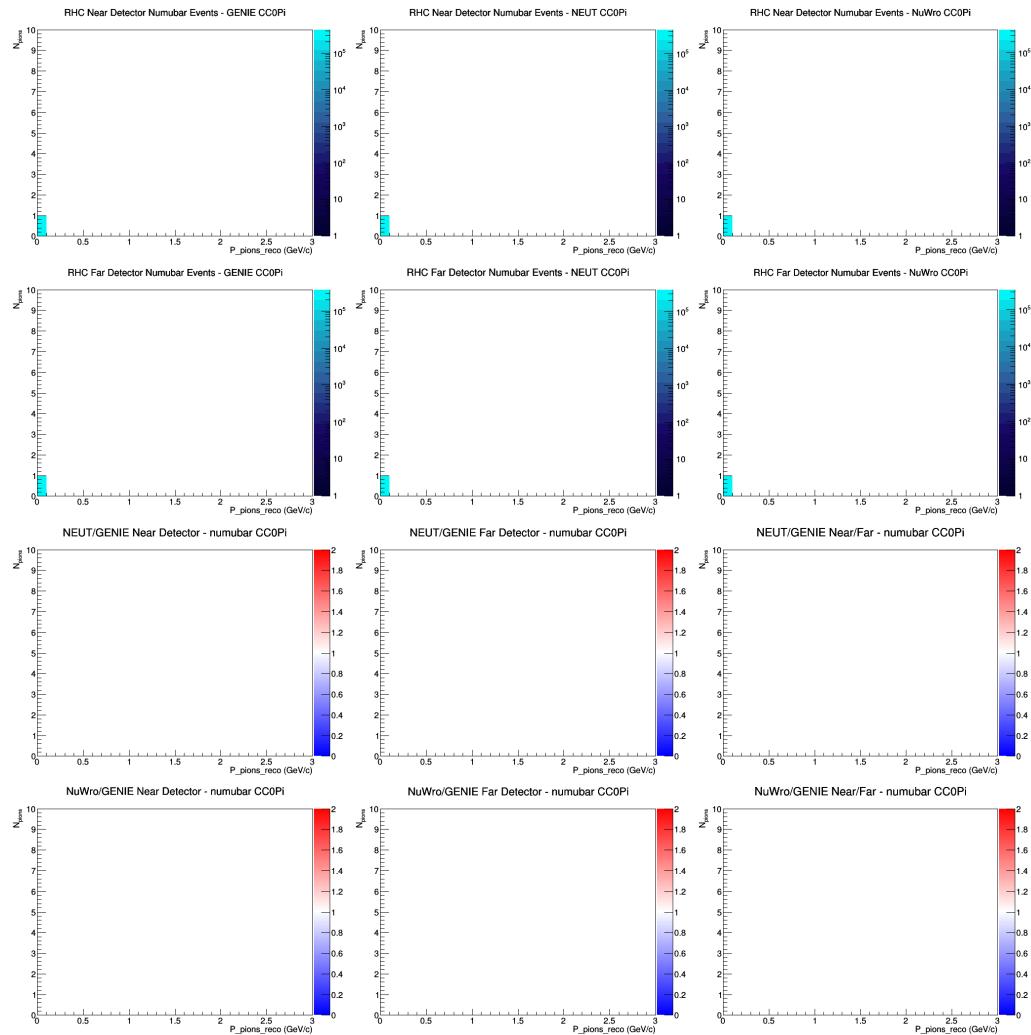
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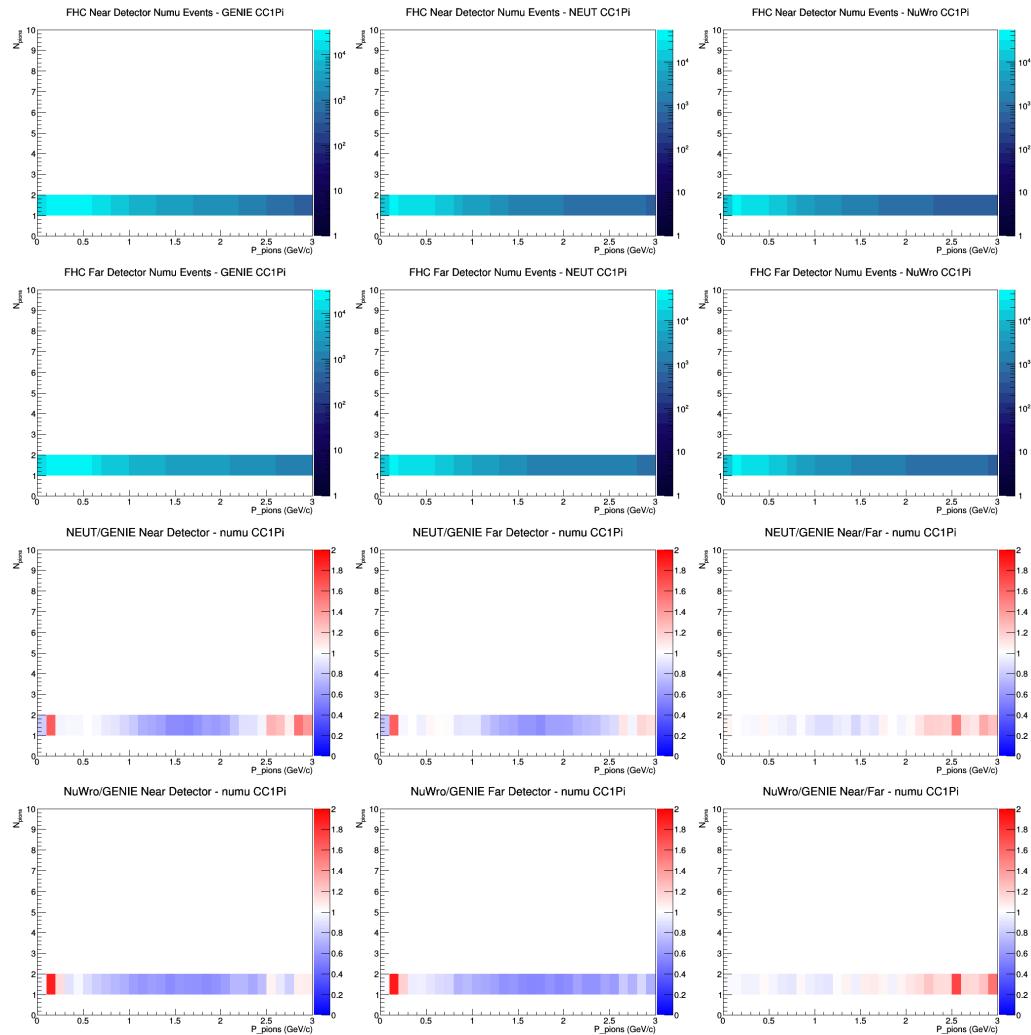
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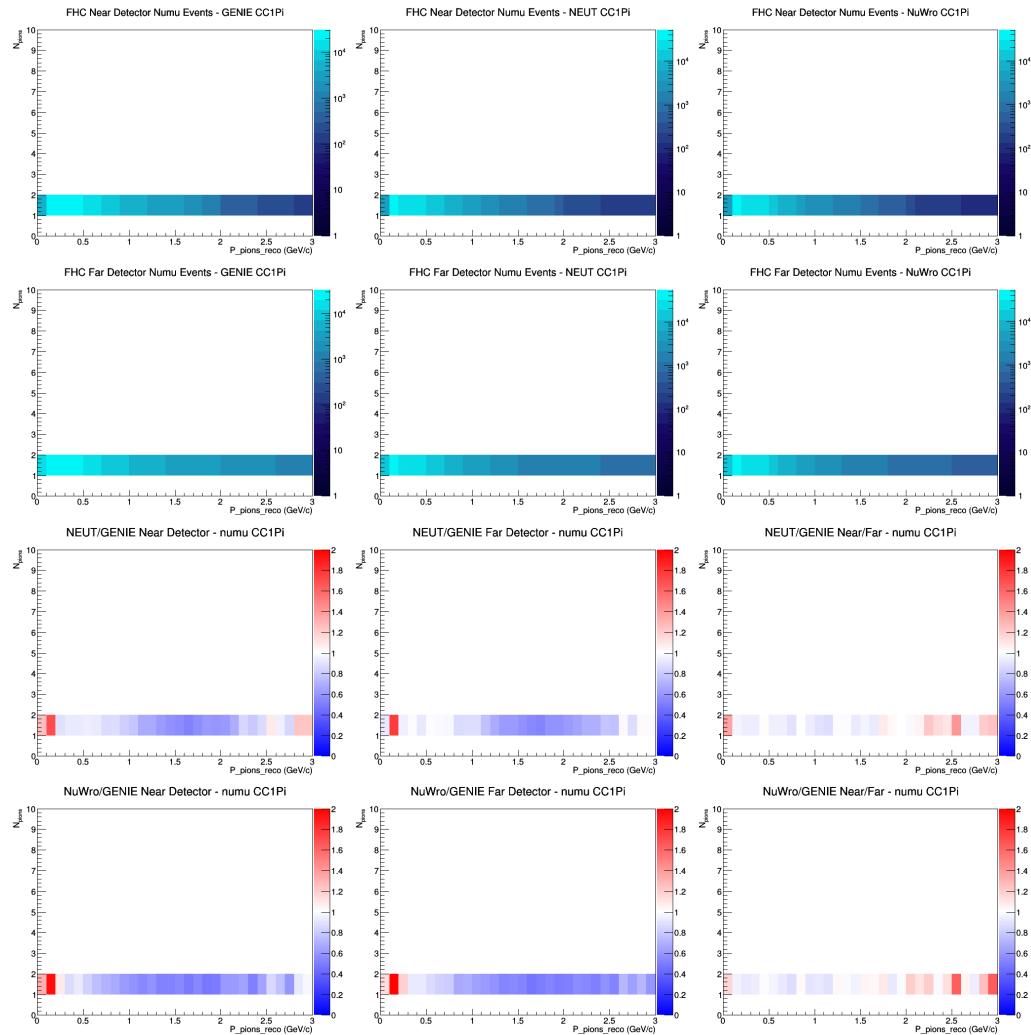
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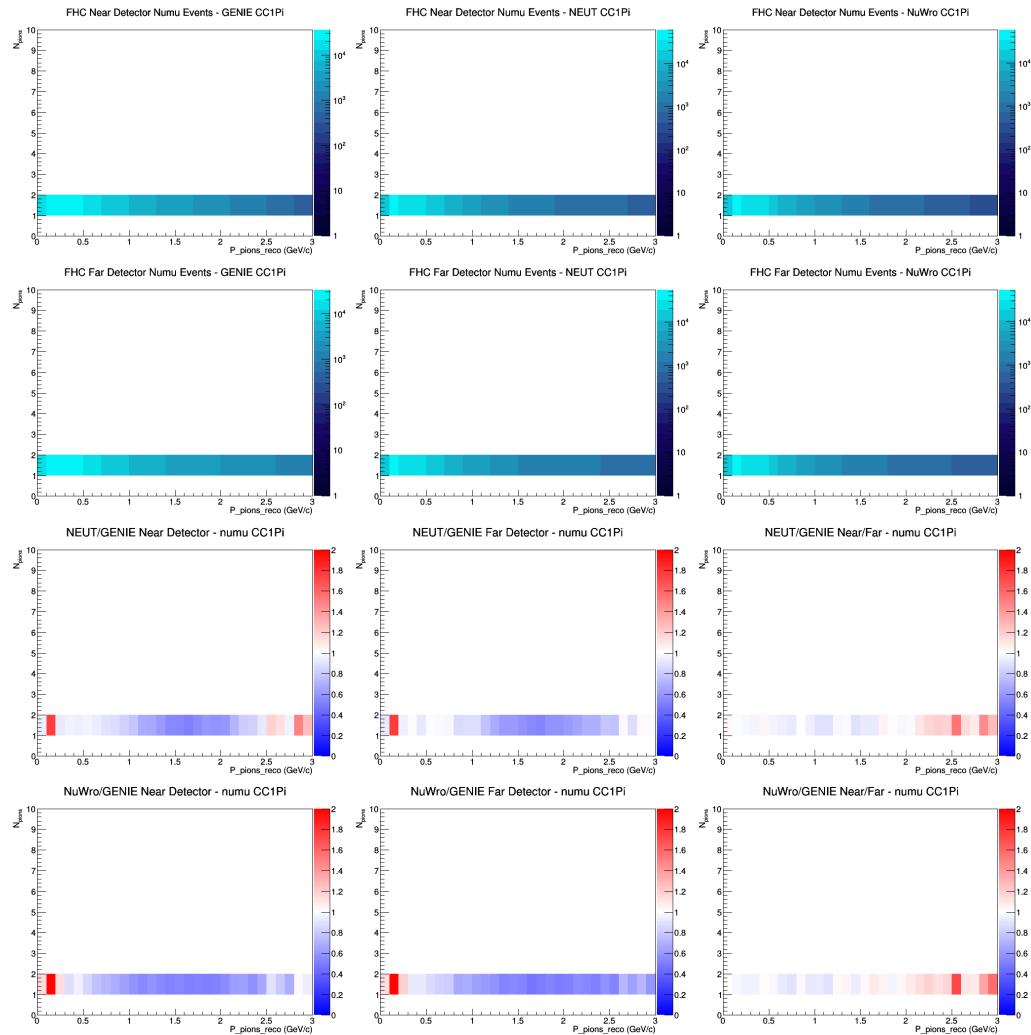
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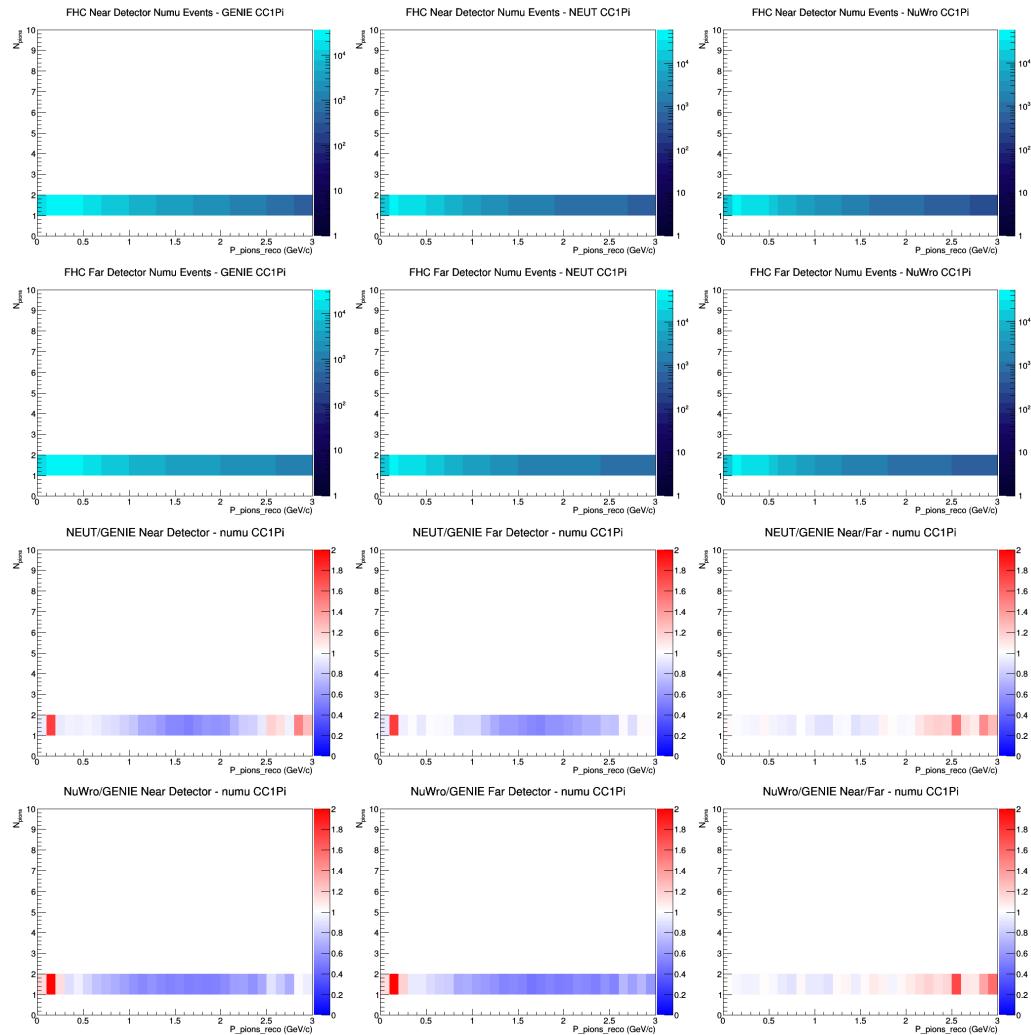
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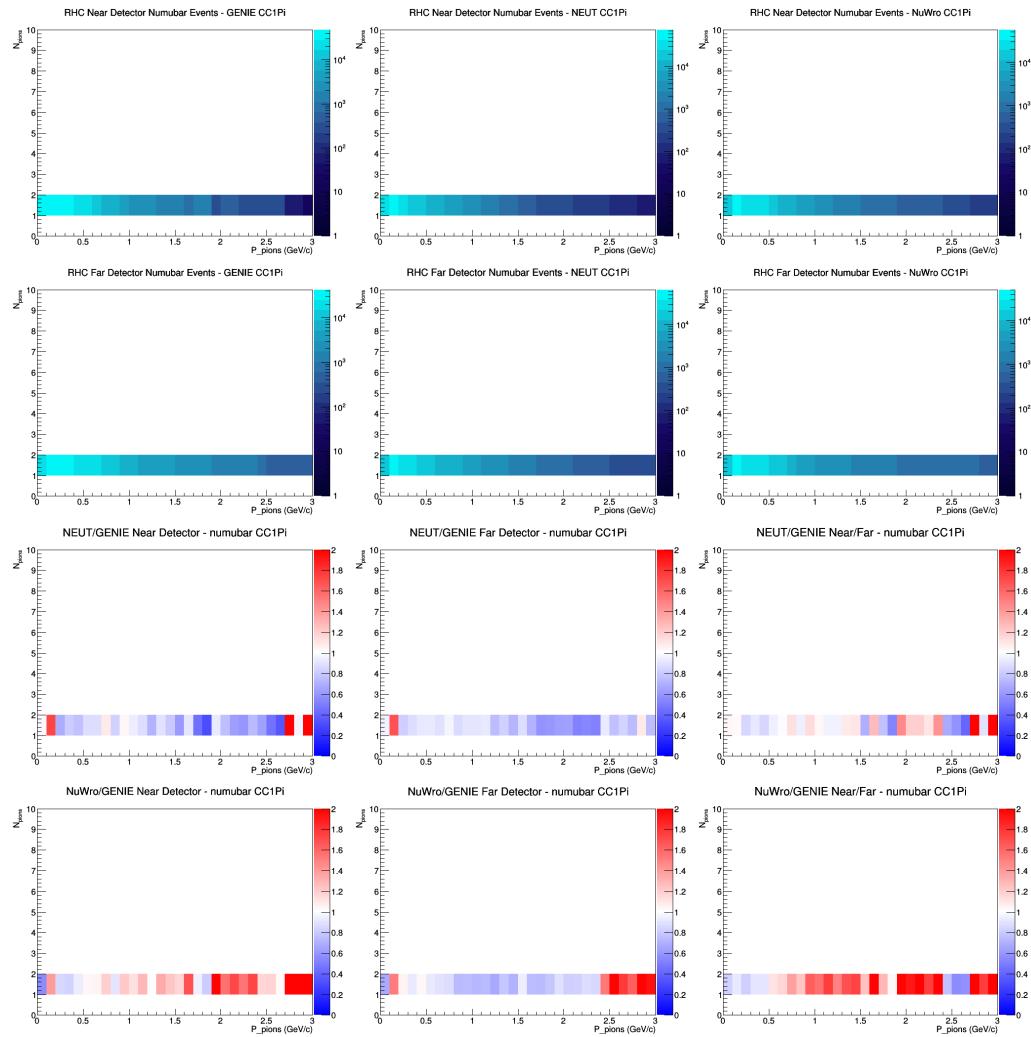
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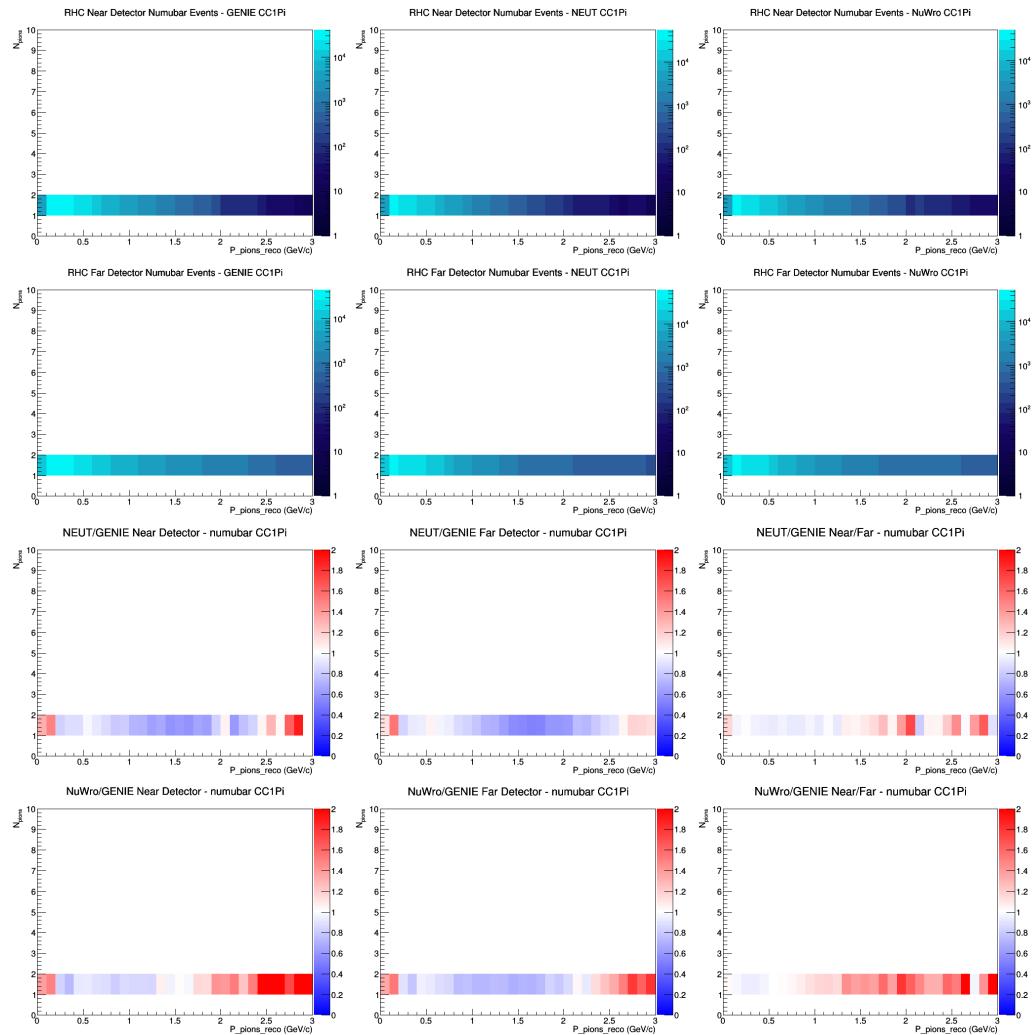
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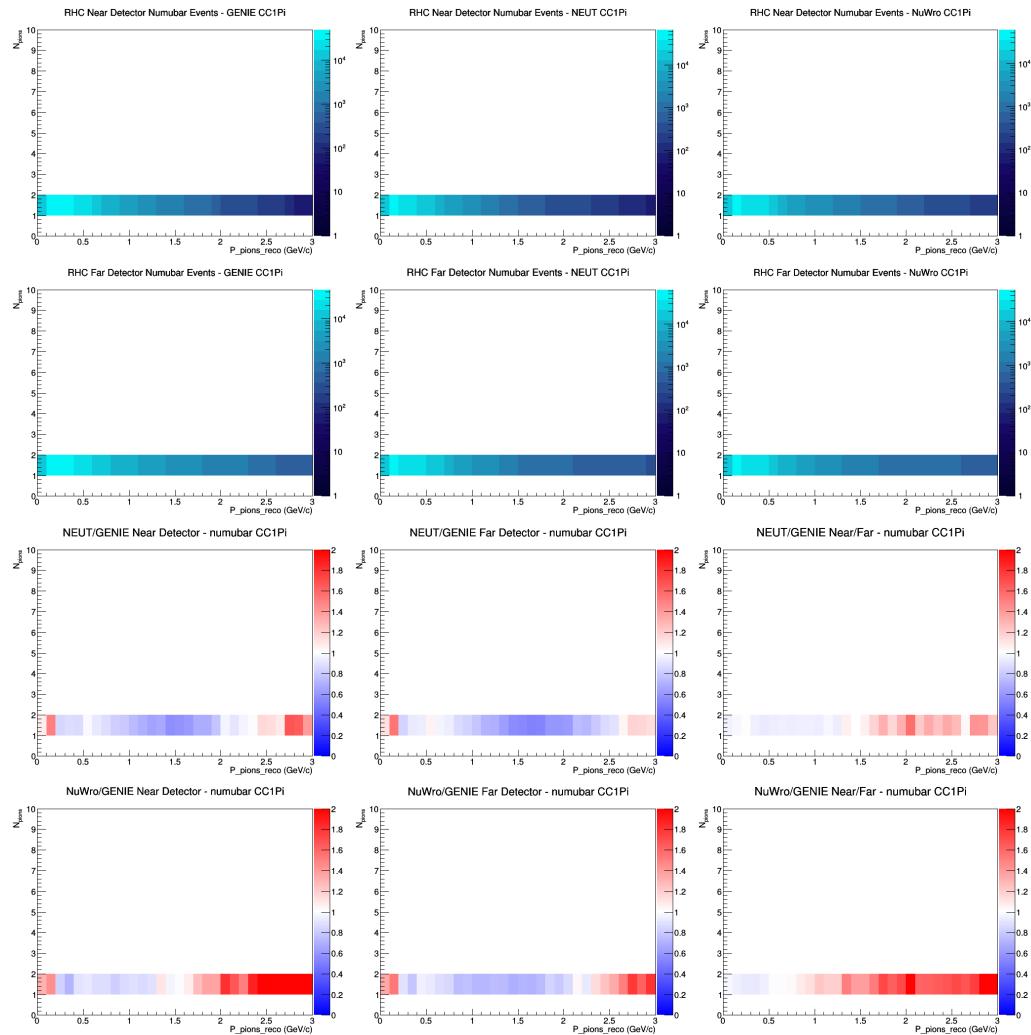
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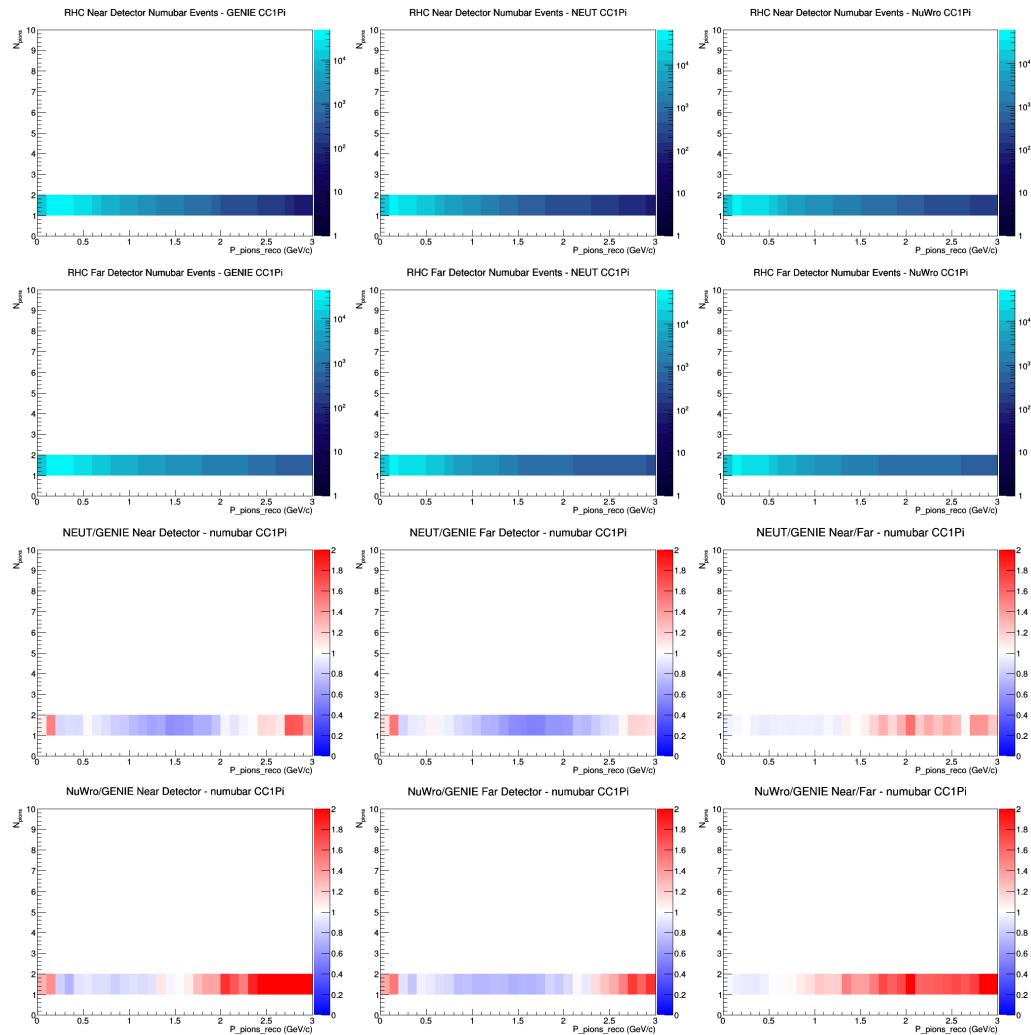
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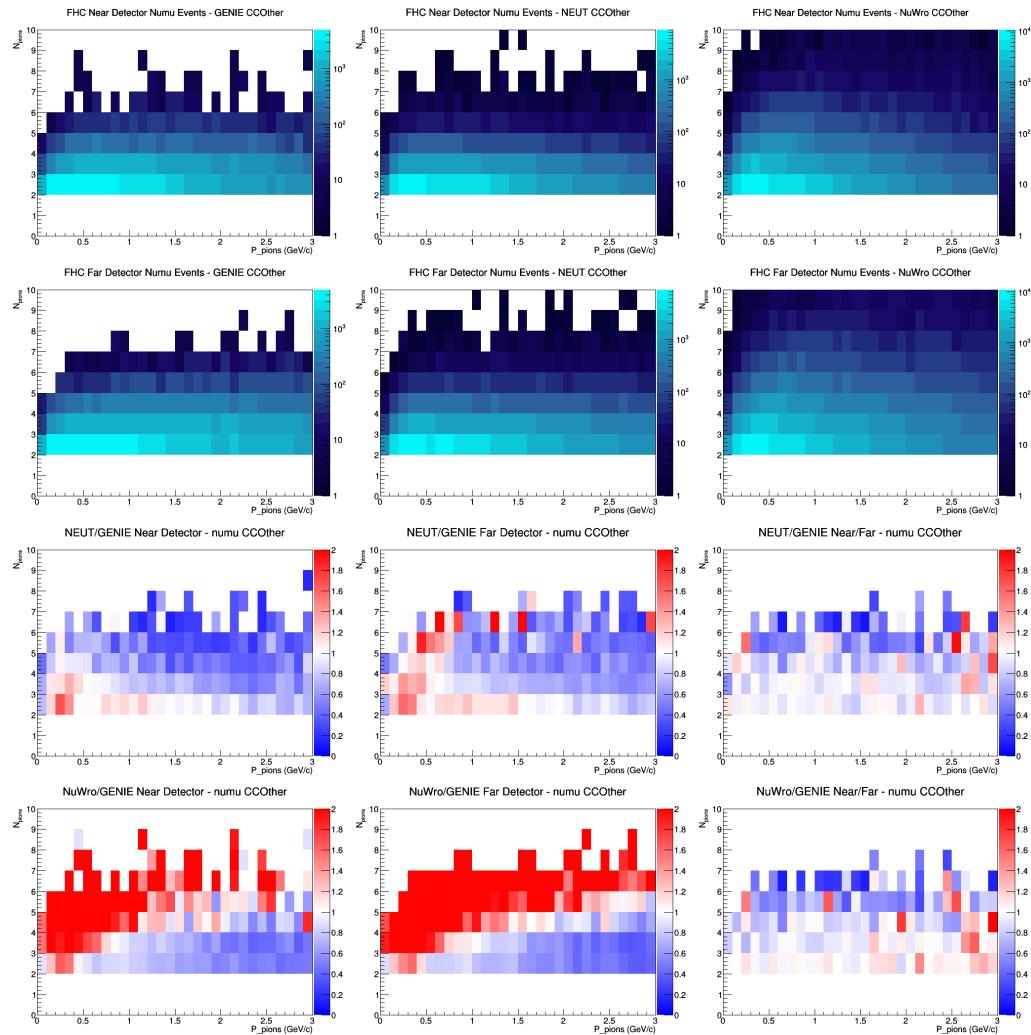
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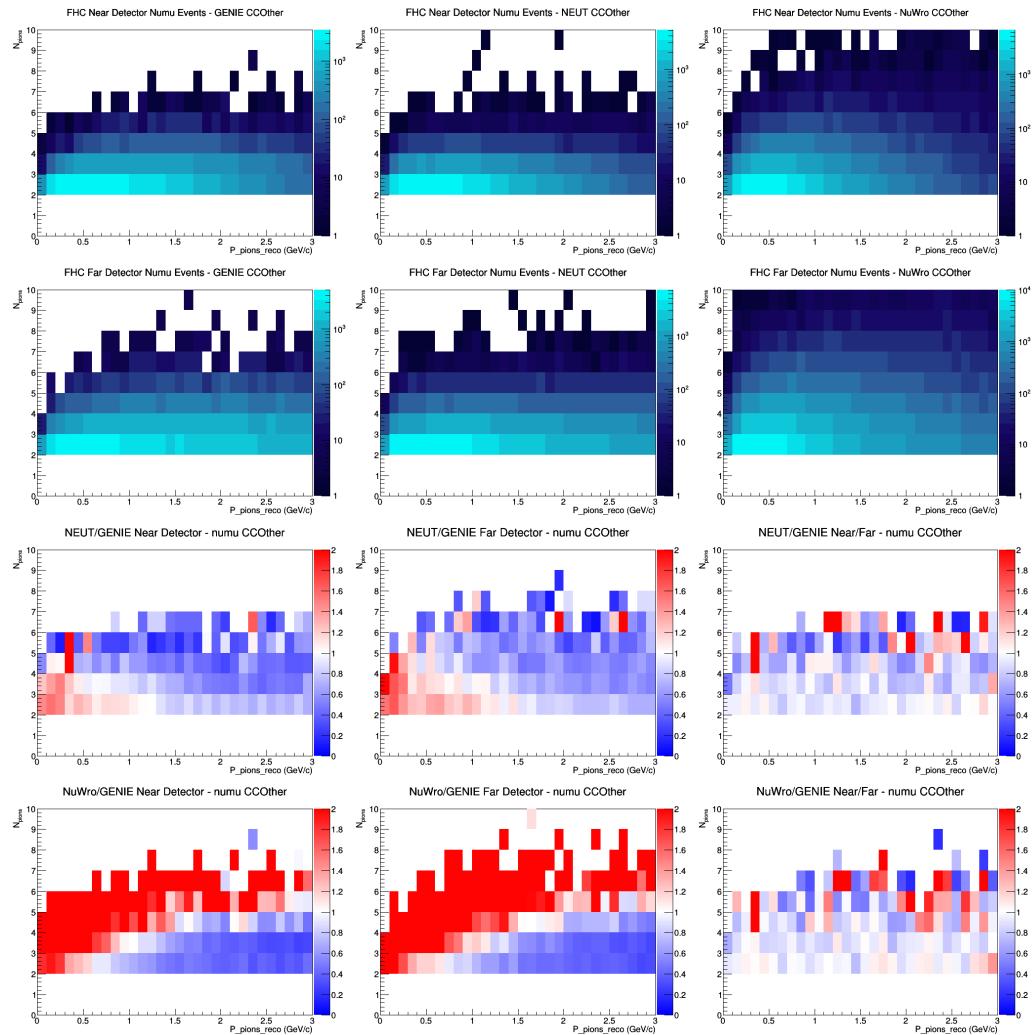
3.32 numubar CC1Pi GAr efficiencies



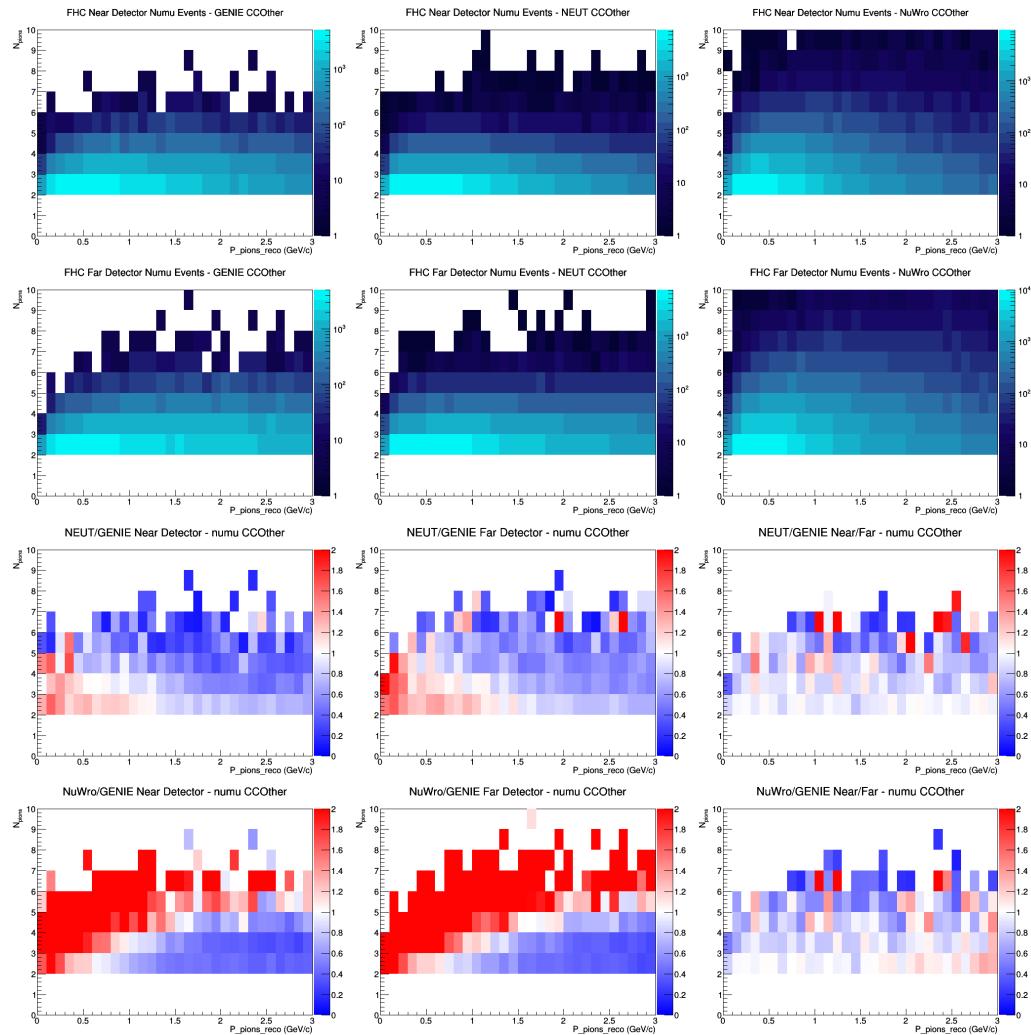
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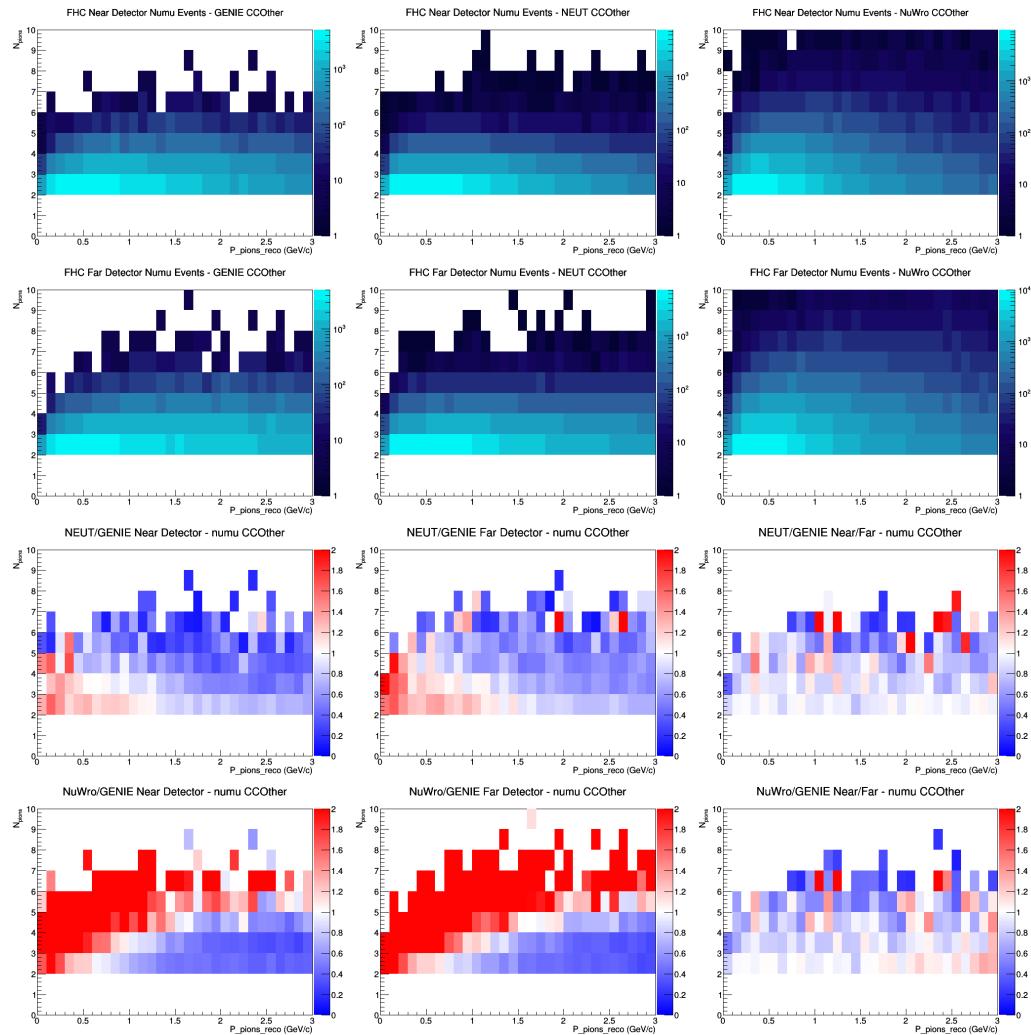
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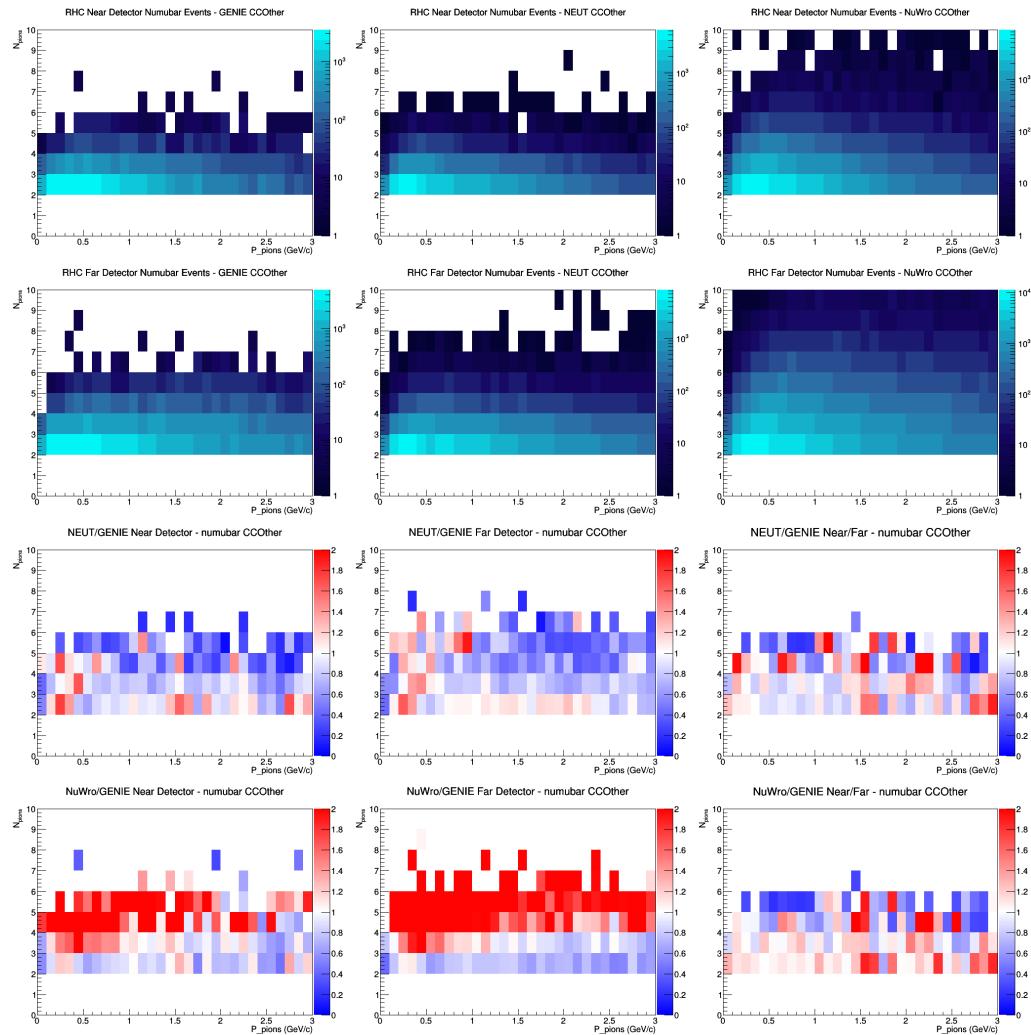
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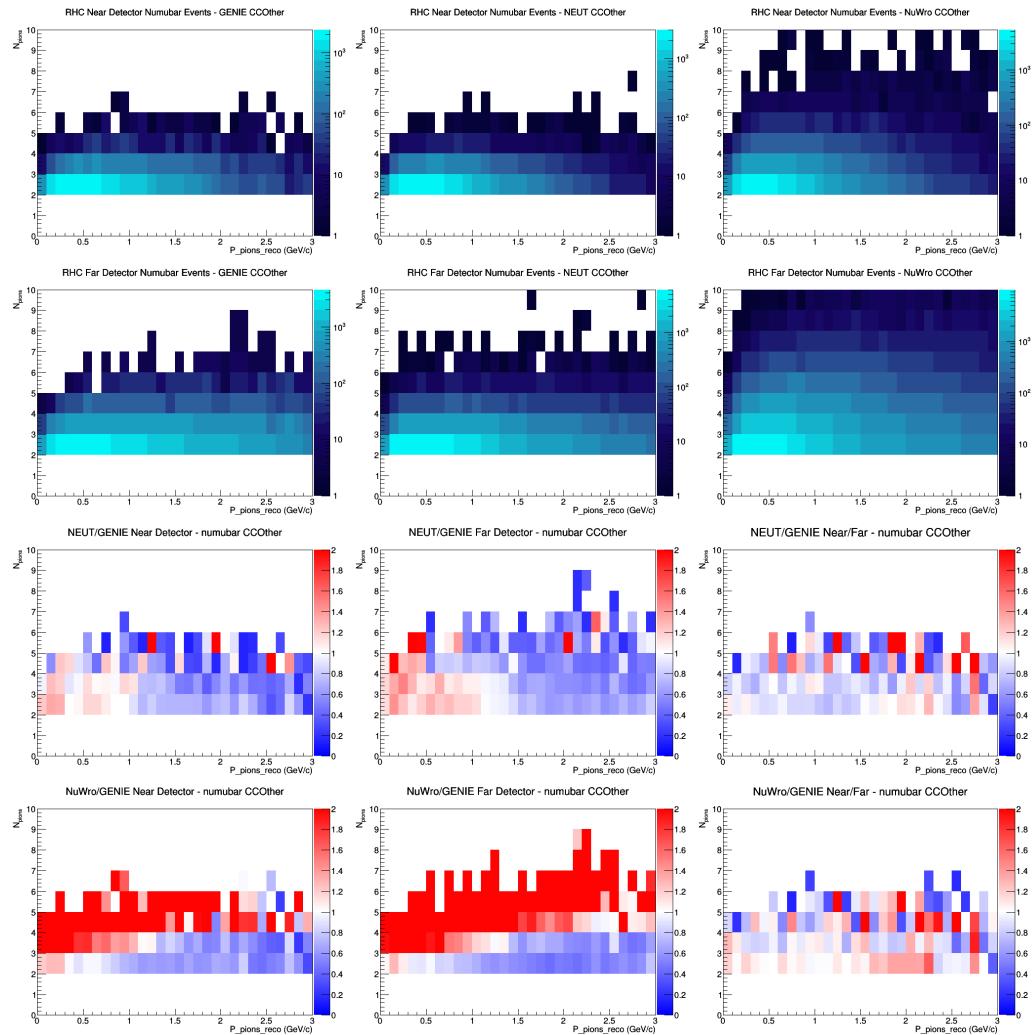
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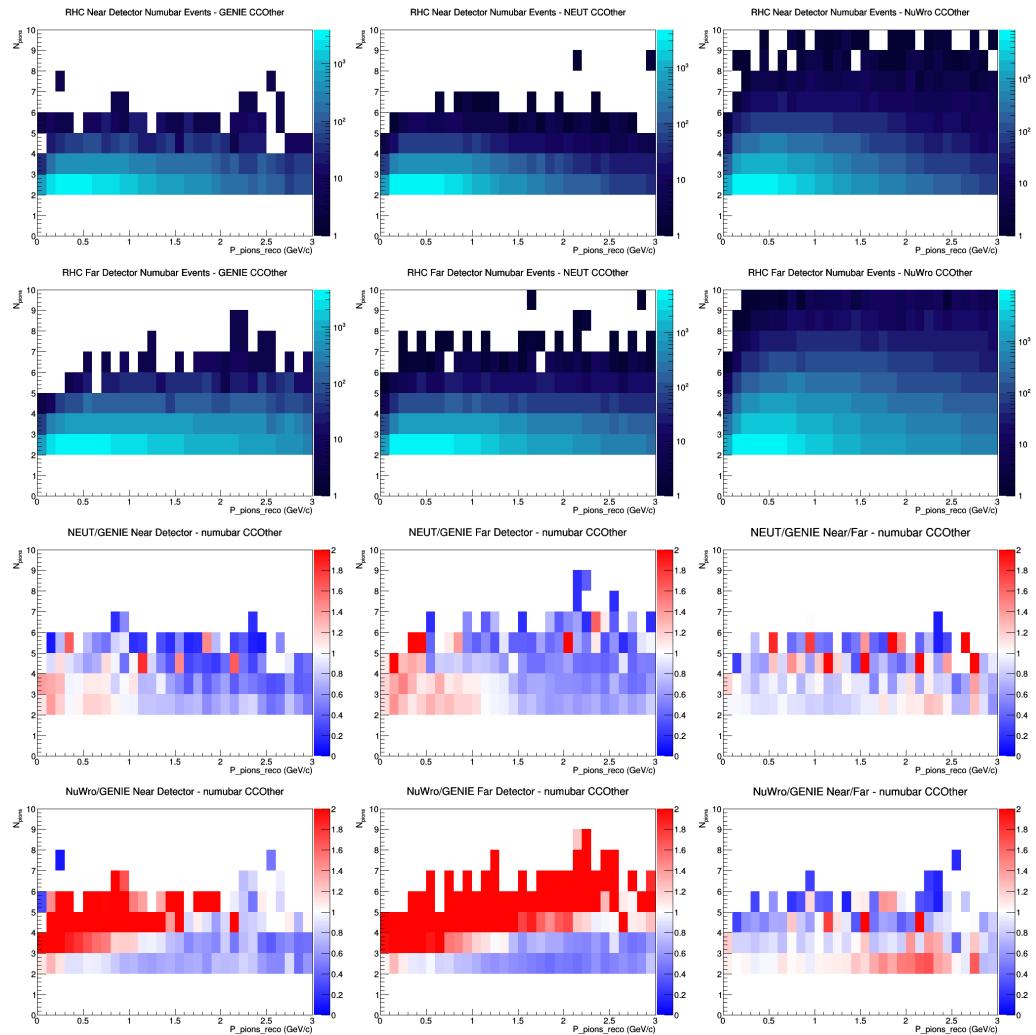
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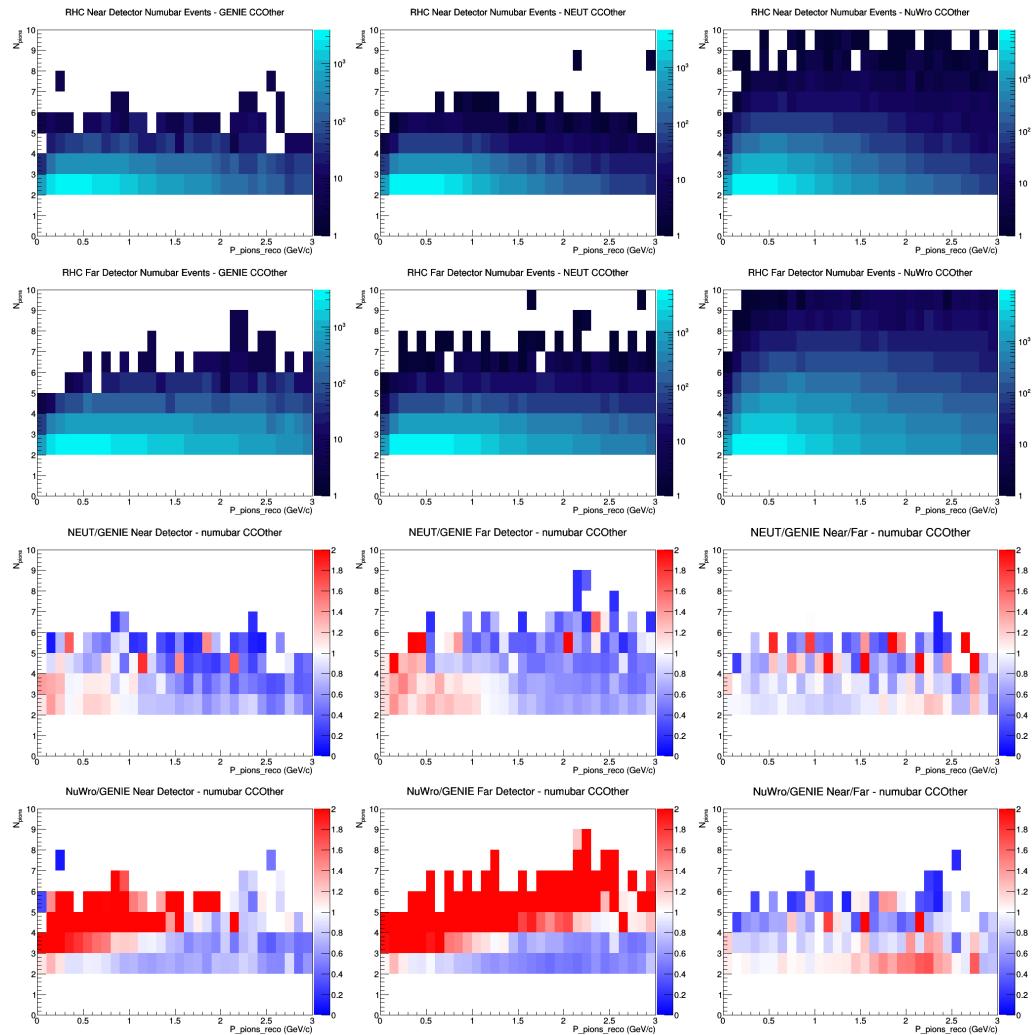
3.38 numubar CCOther FGT efficiencies



3.39 numubar CCOther LAr efficiencies

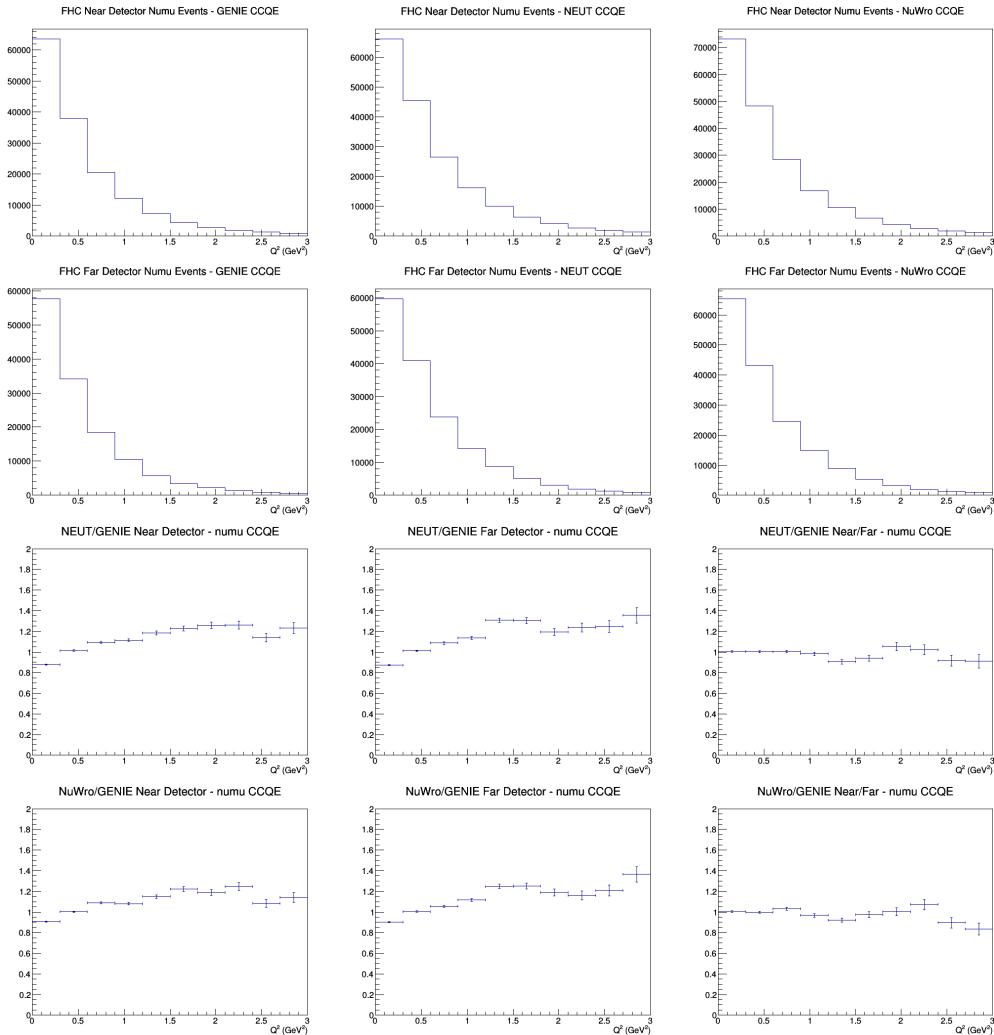


3.40 numubar CCOther GAr efficiencies

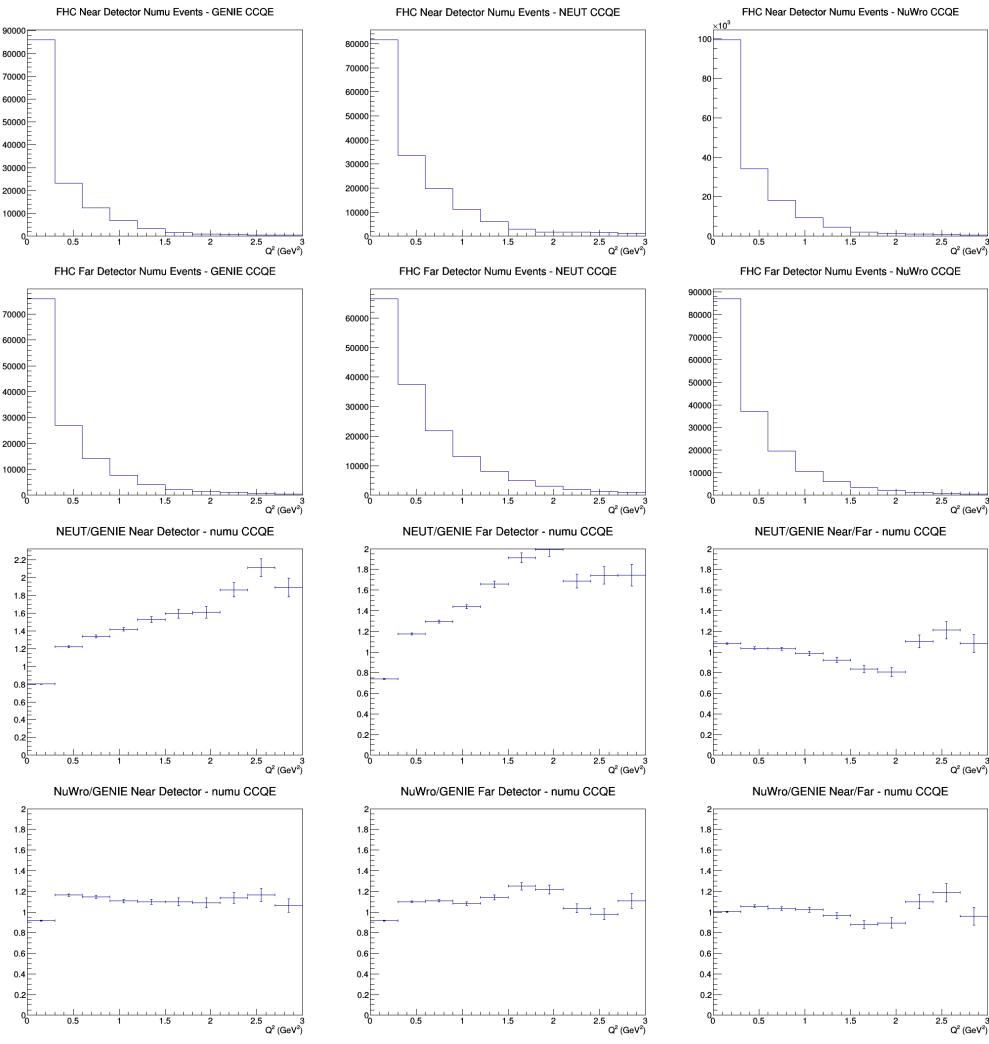


4 Q^2 Plots

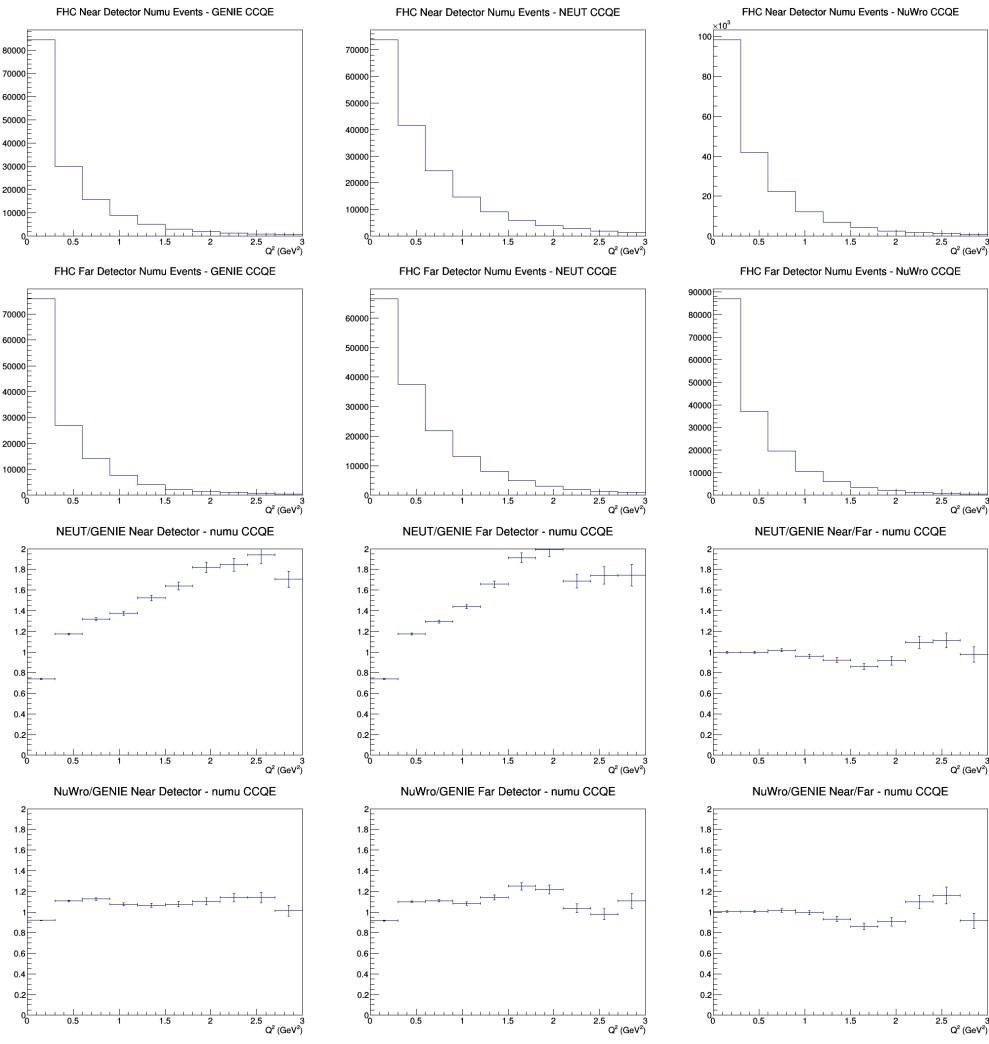
4.1 numu CCQE no efficiencies



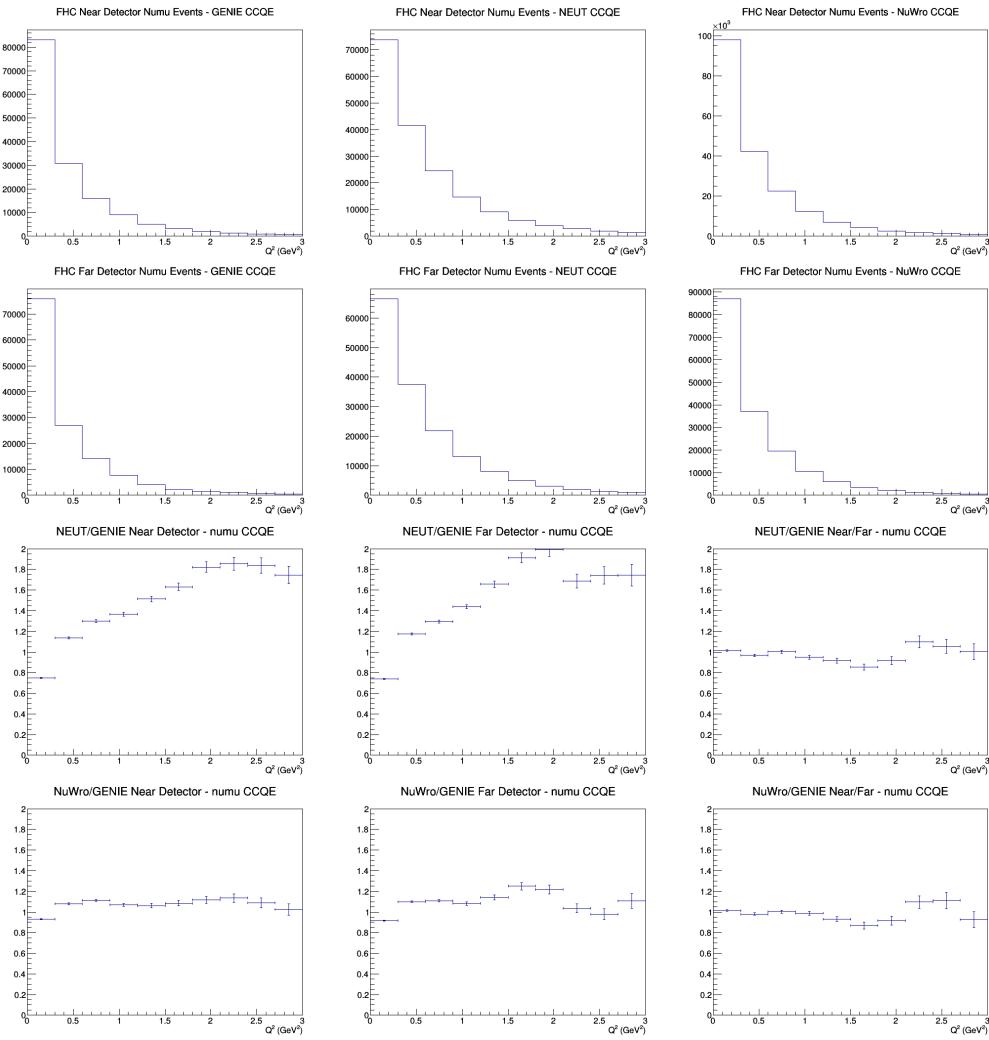
4.2 numu CCQE FGT efficiencies



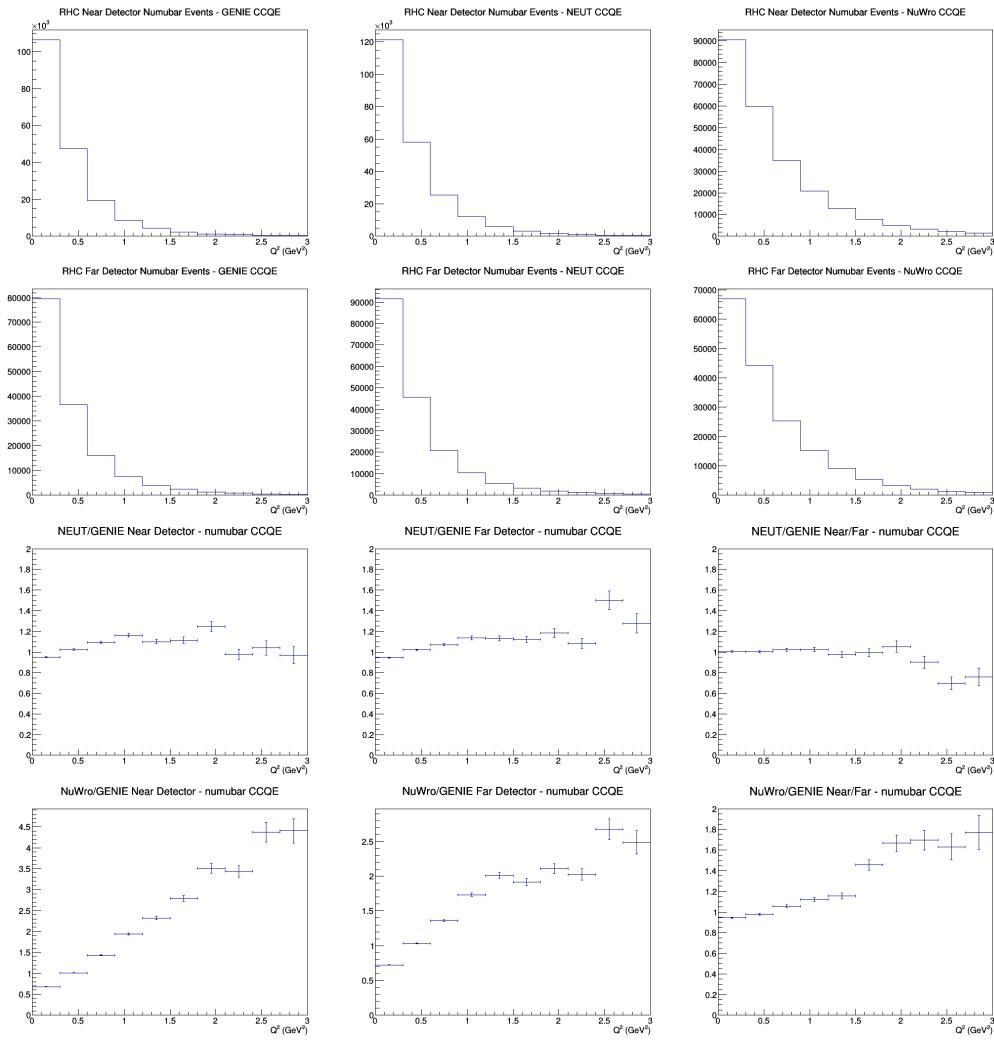
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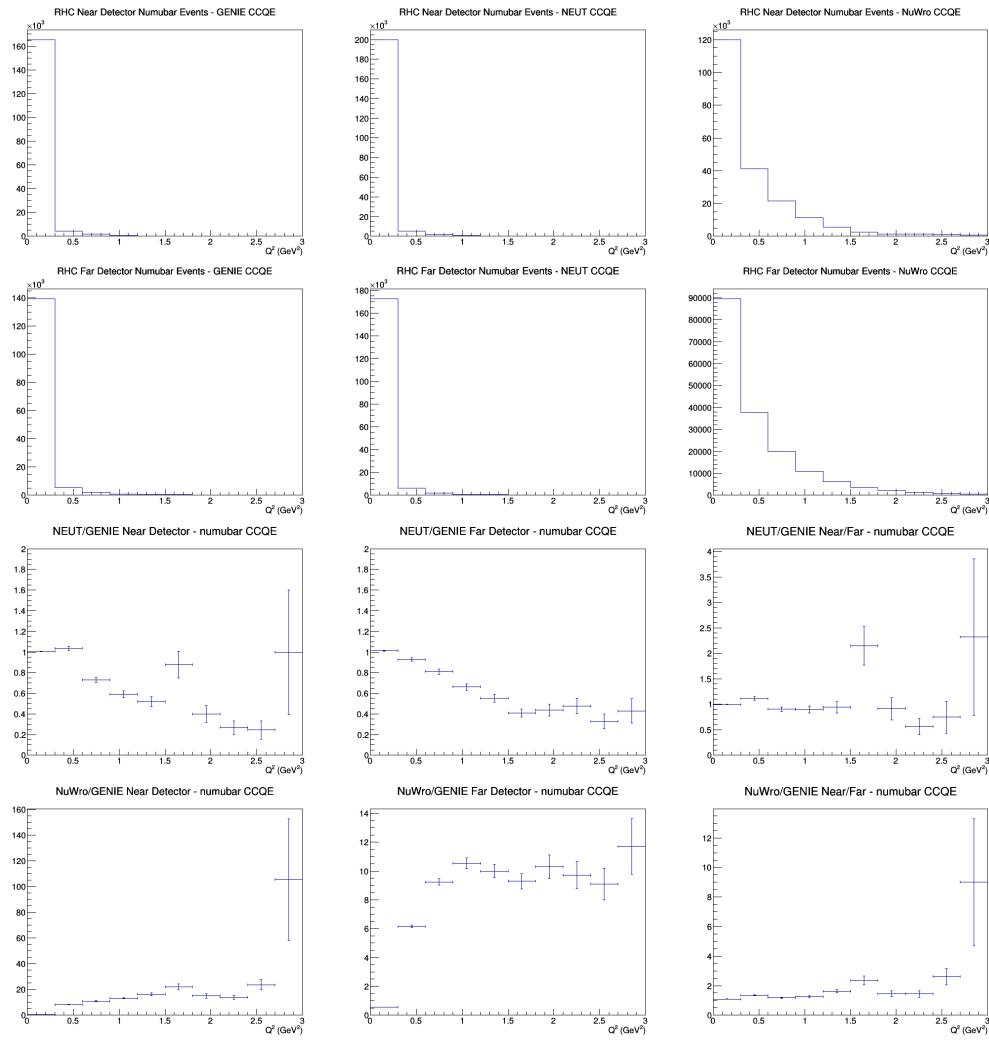
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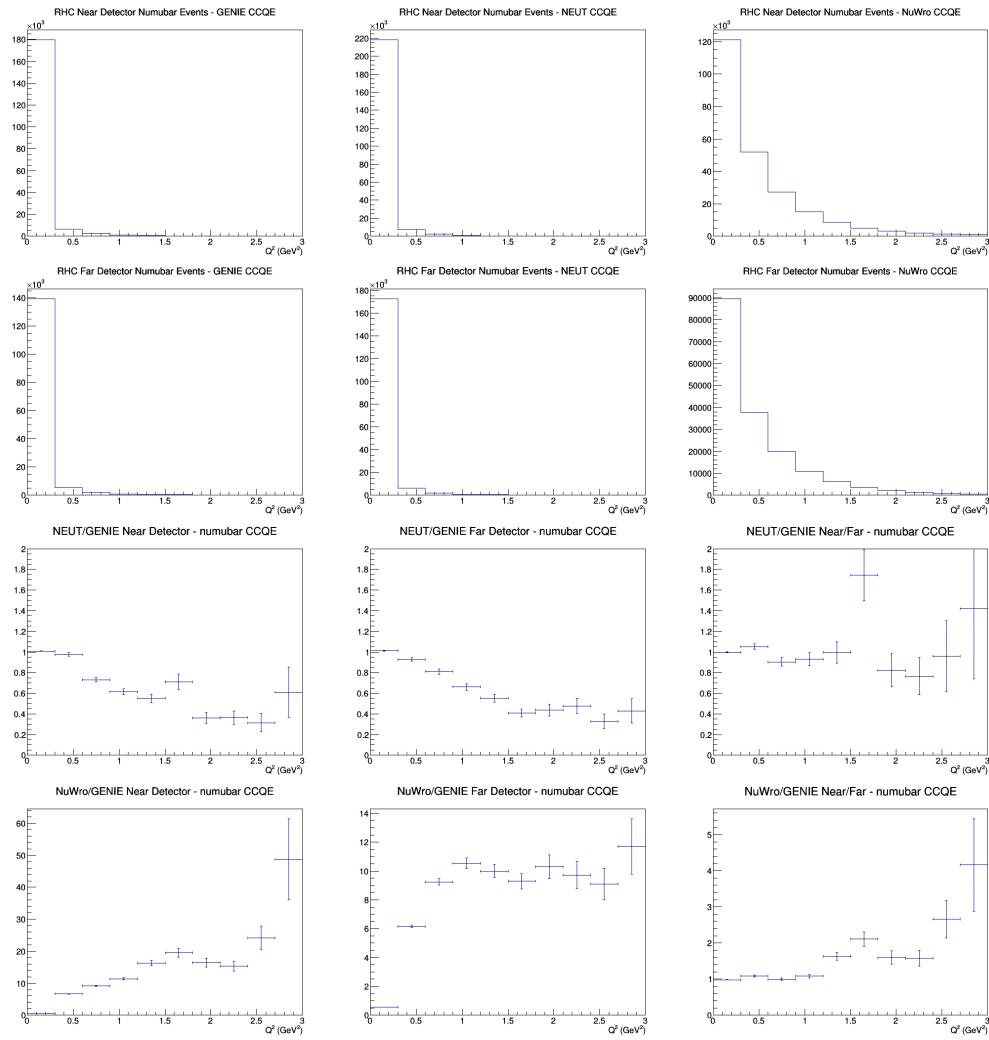
4.5 numubar CCQE no efficiencies



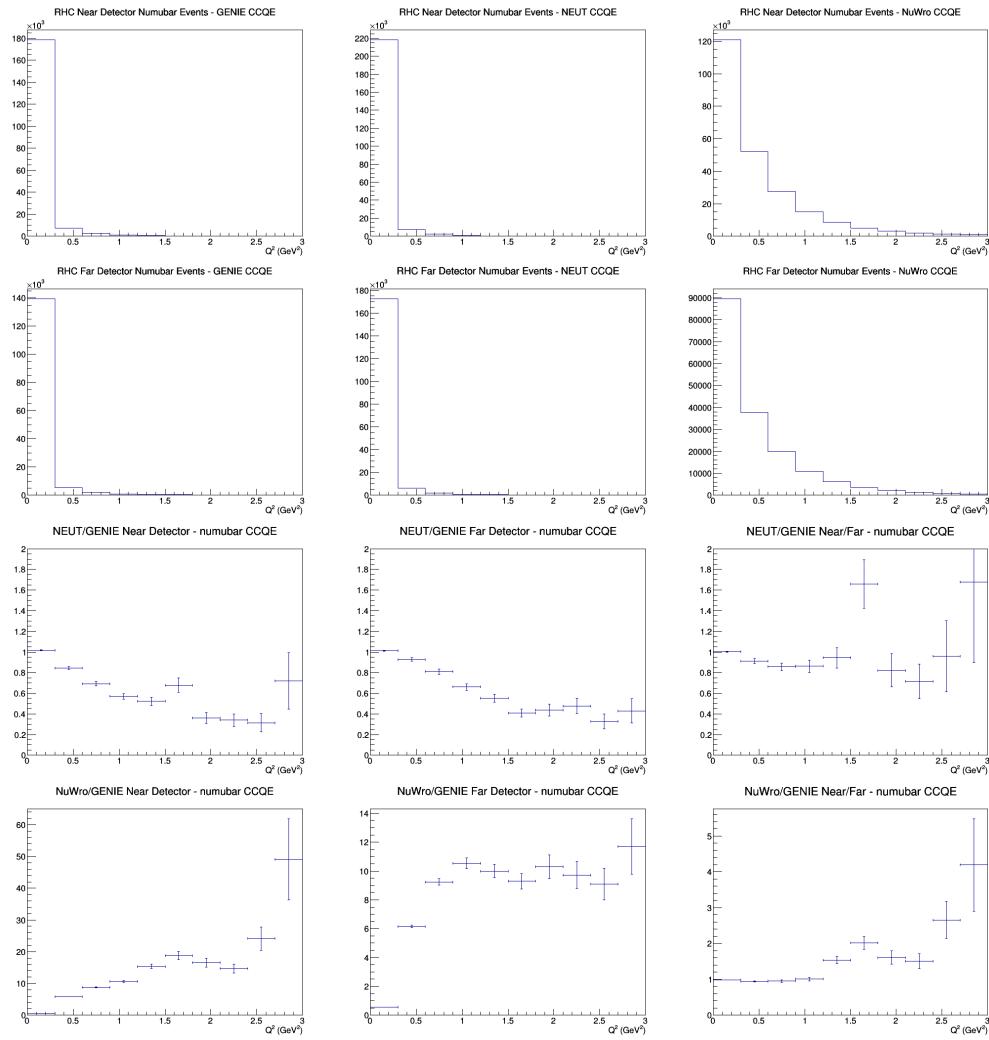
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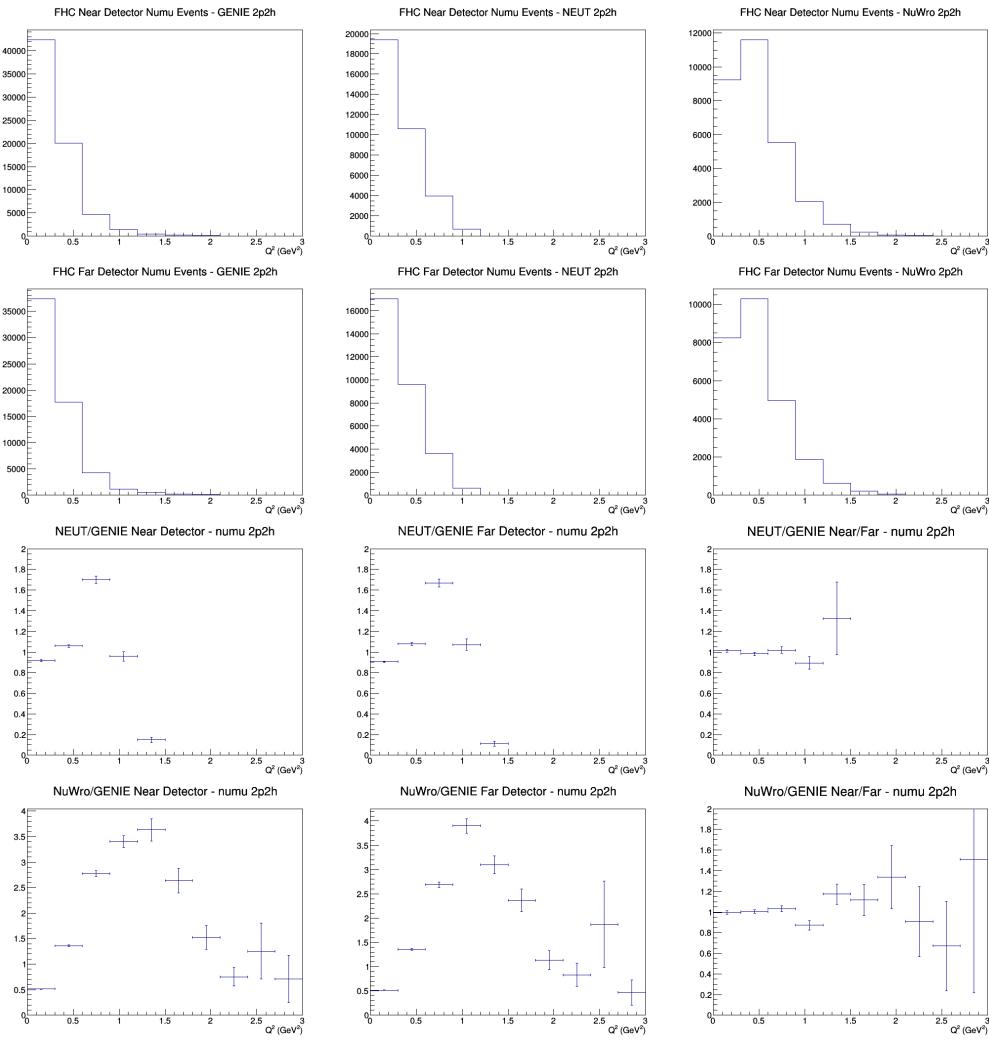
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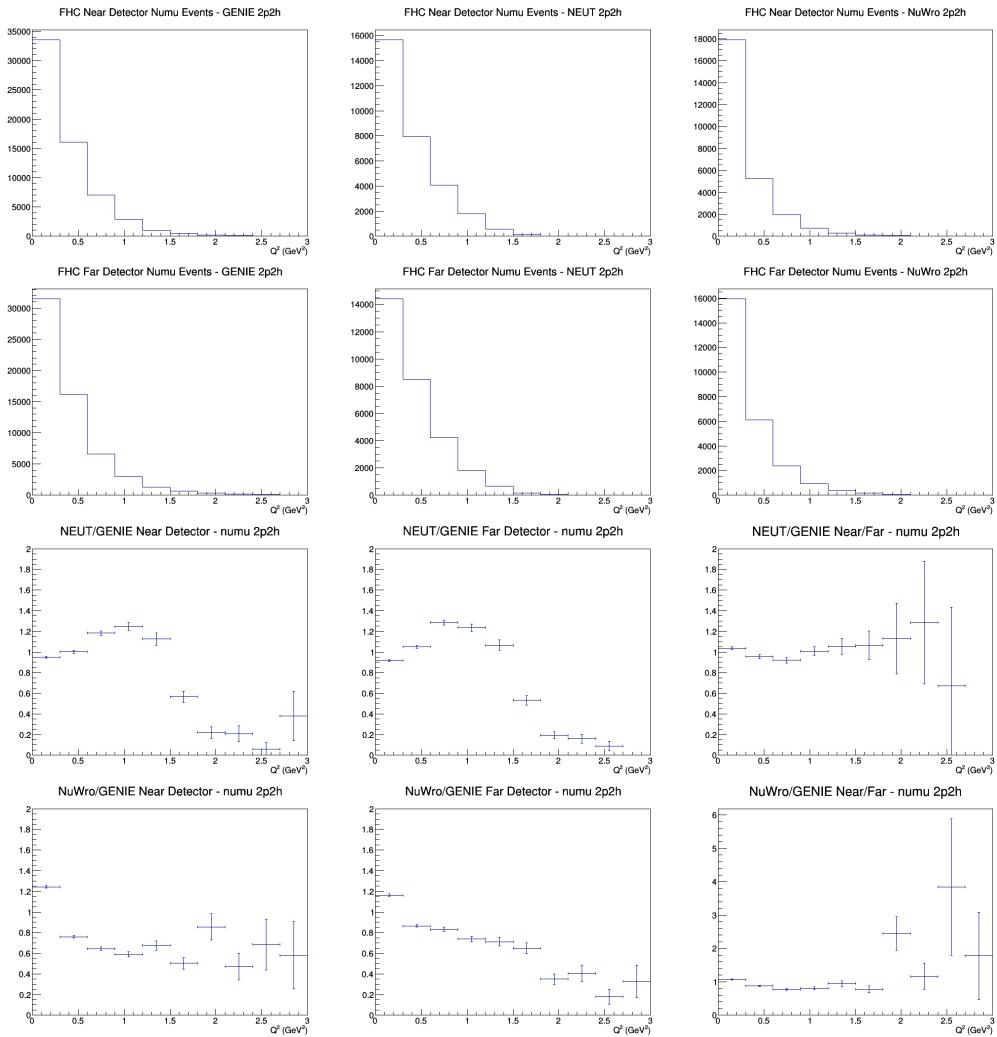
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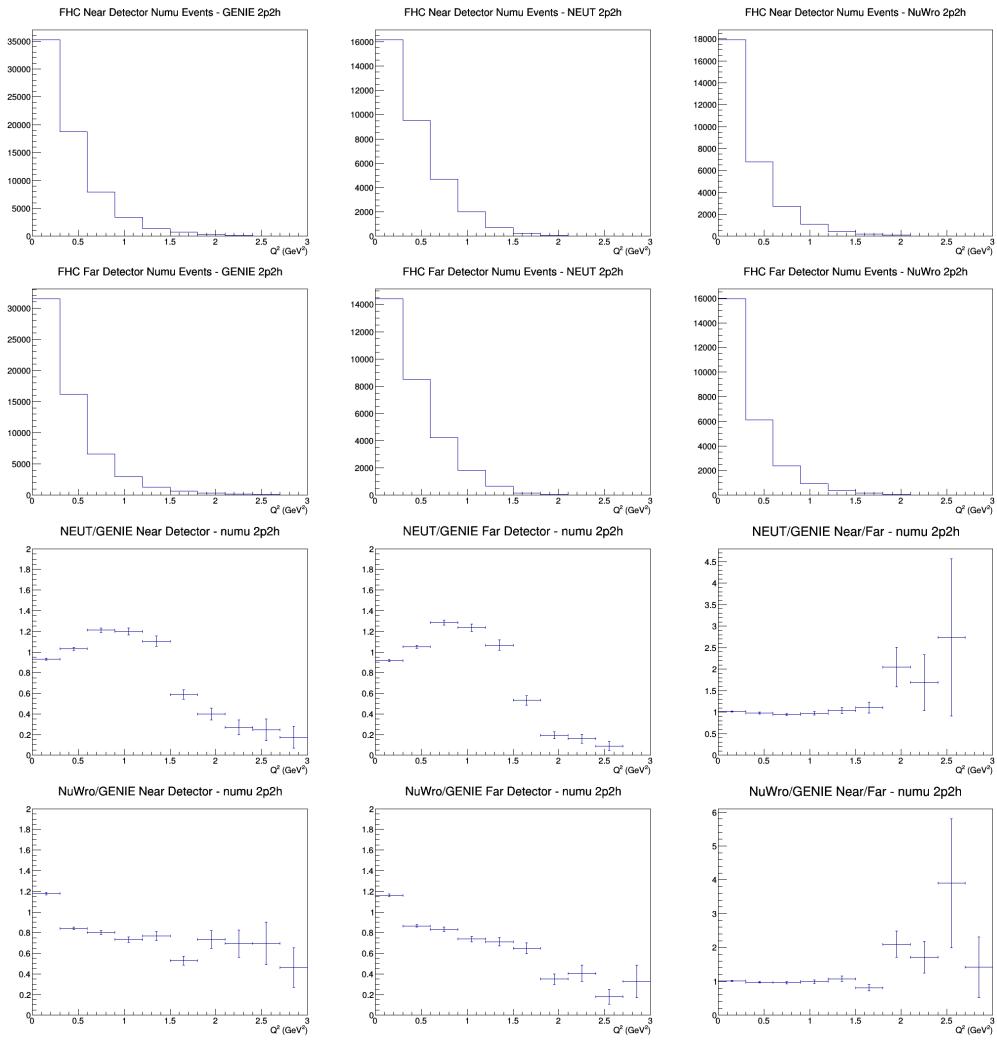
4.9 numu 2p2h no efficiencies



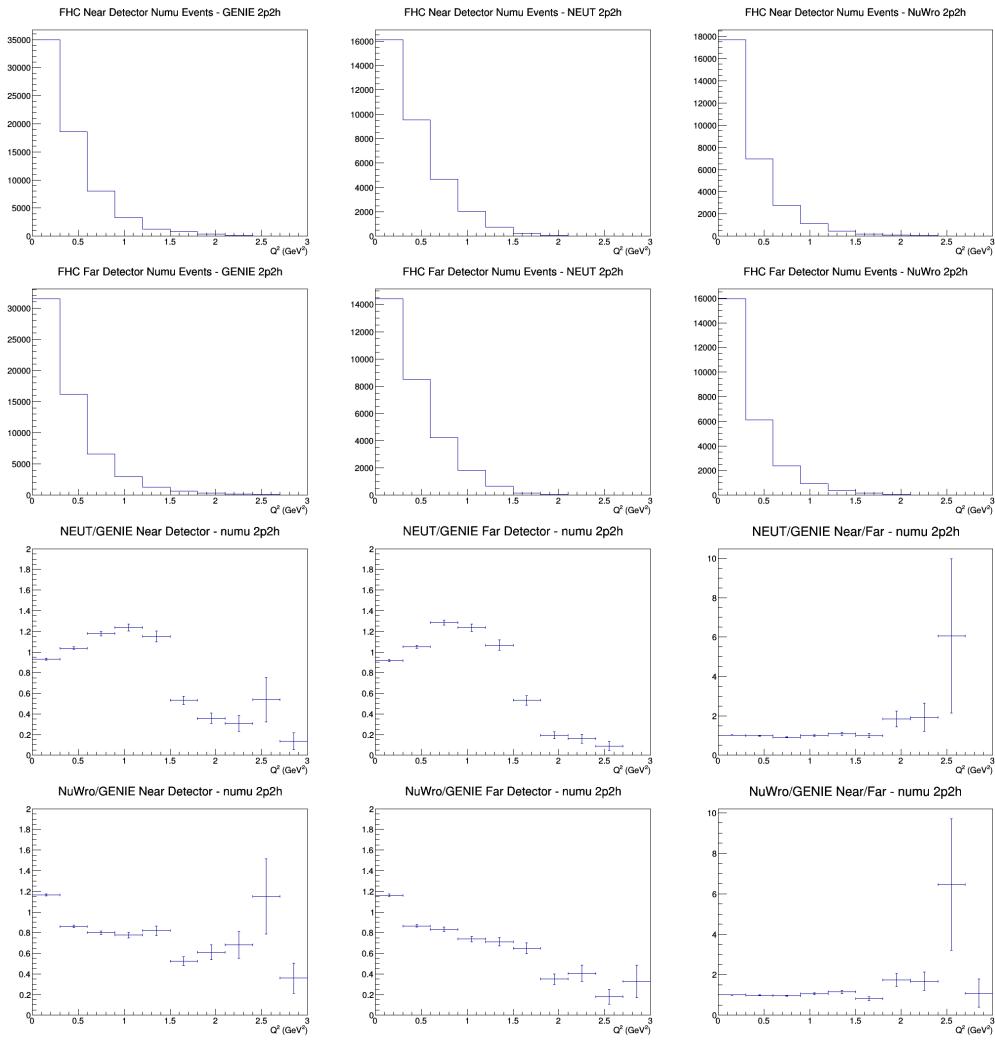
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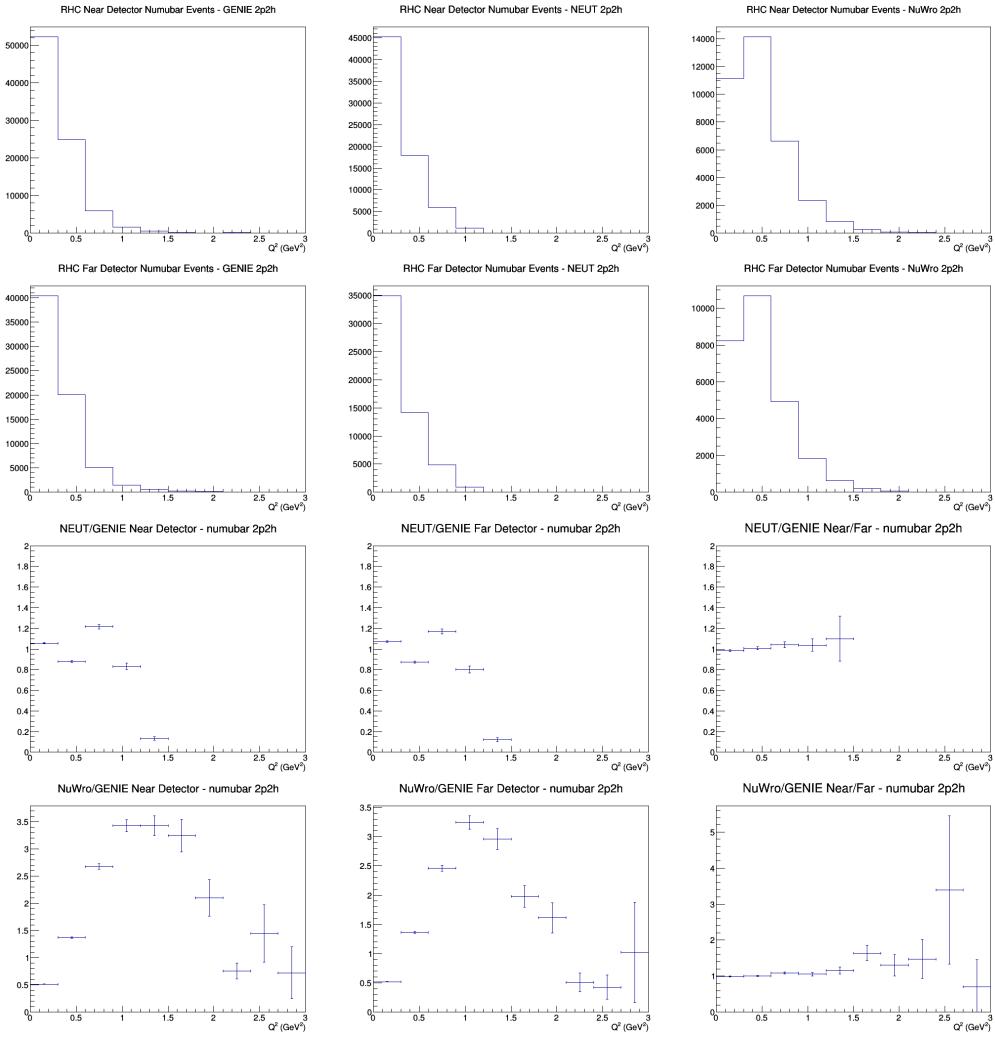
4.11 numu 2p2h LAr efficiencies



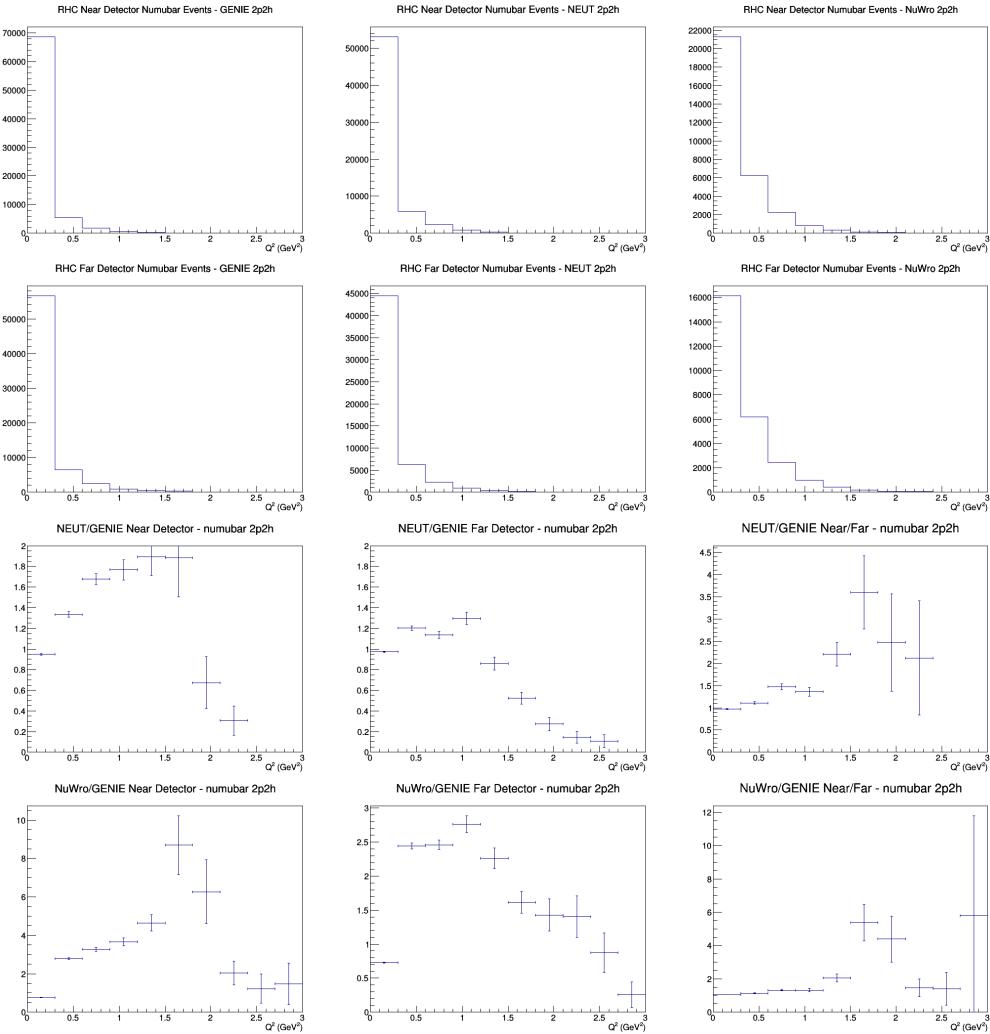
4.12 numu 2p2h GAr efficiencies



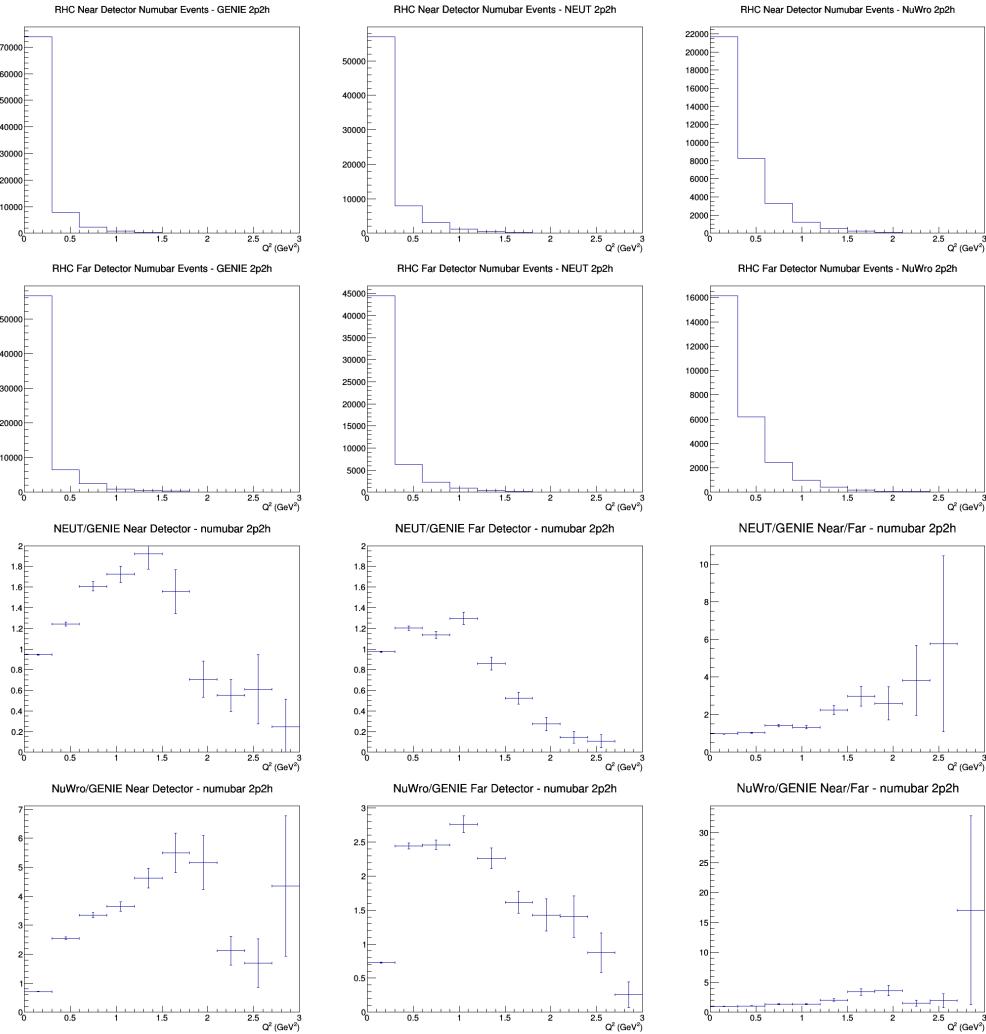
4.13 numubar 2p2h no efficiencies



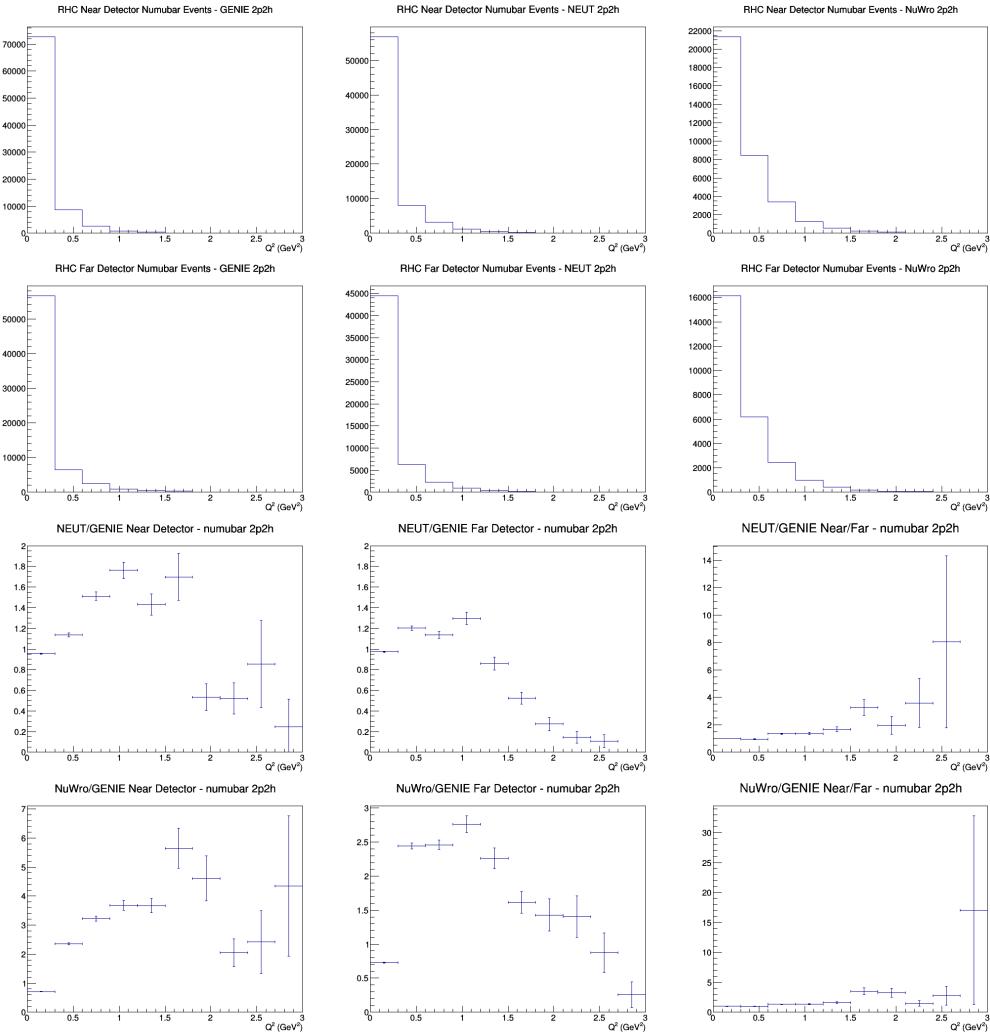
4.14 numubar 2p2h FGT efficiencies



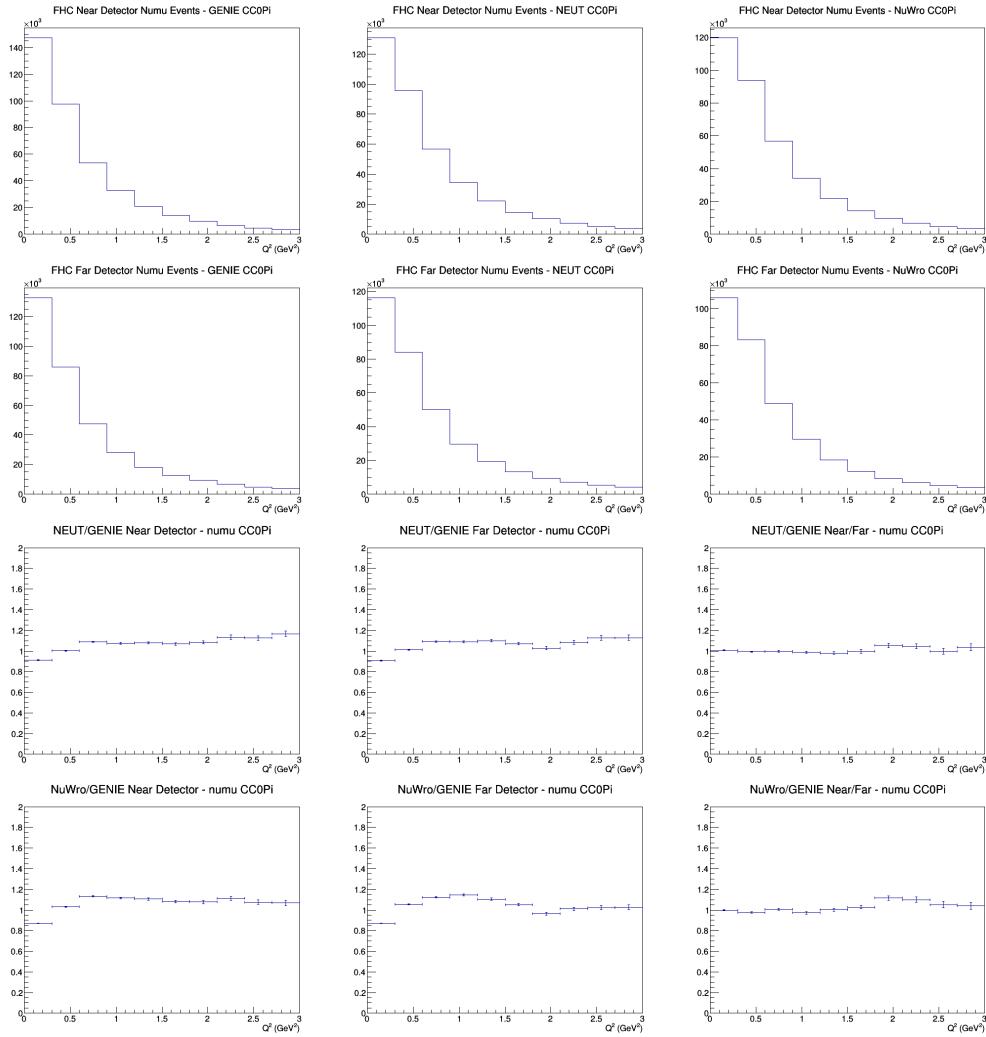
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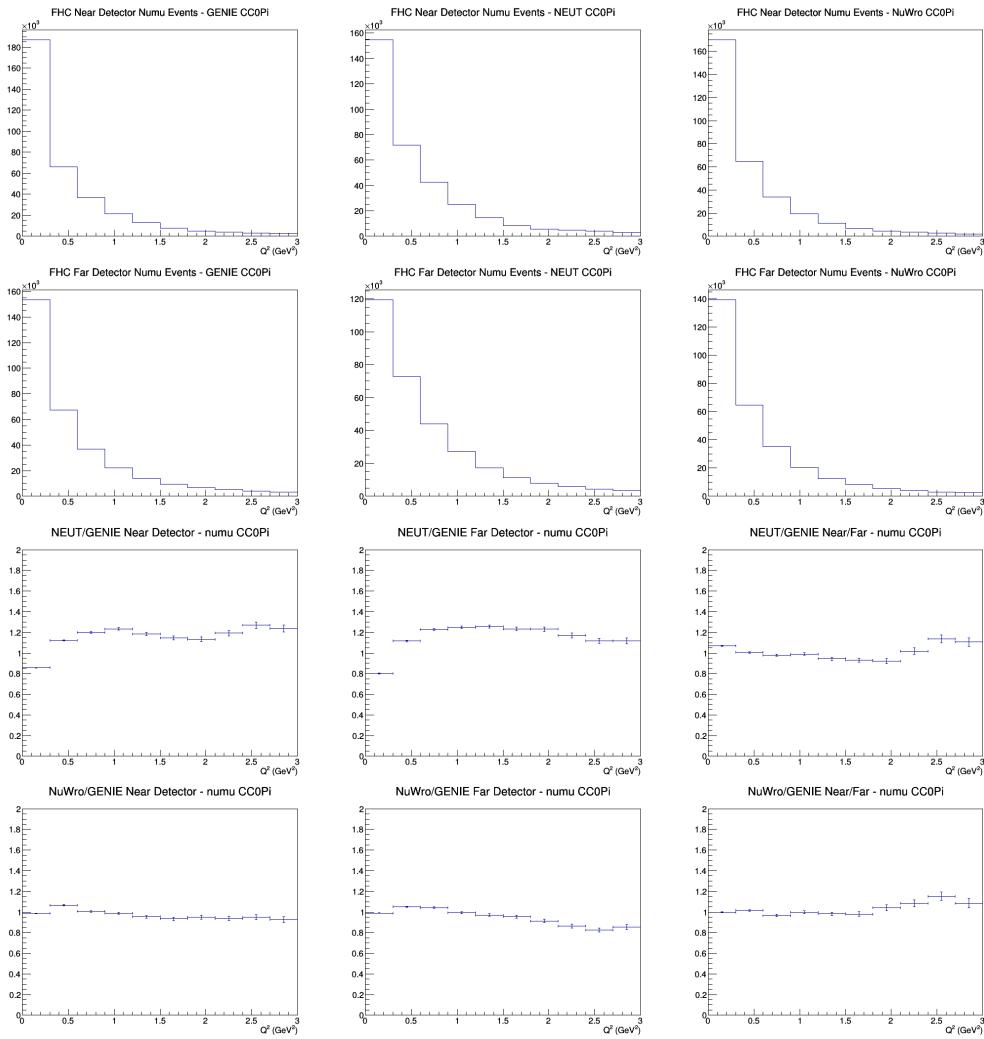
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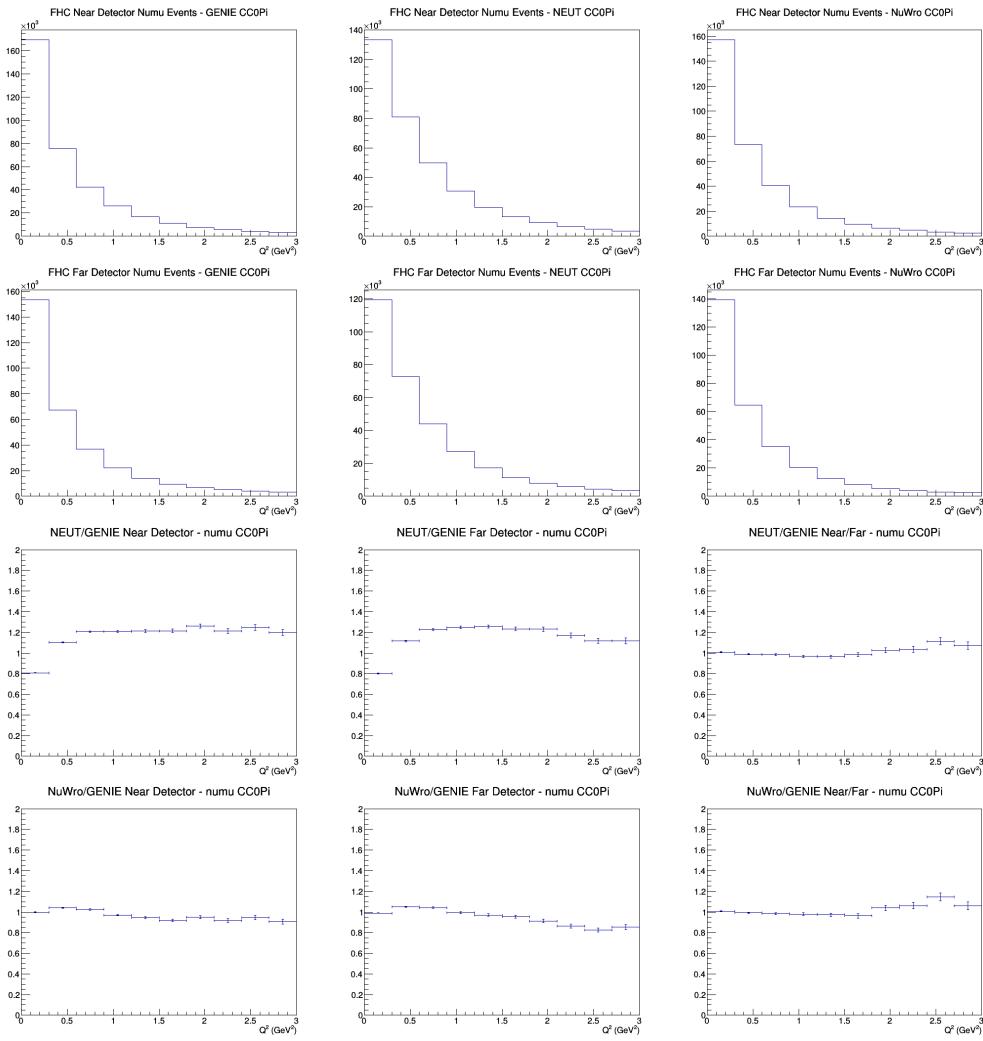
4.17 numu CC0Pi no efficiencies



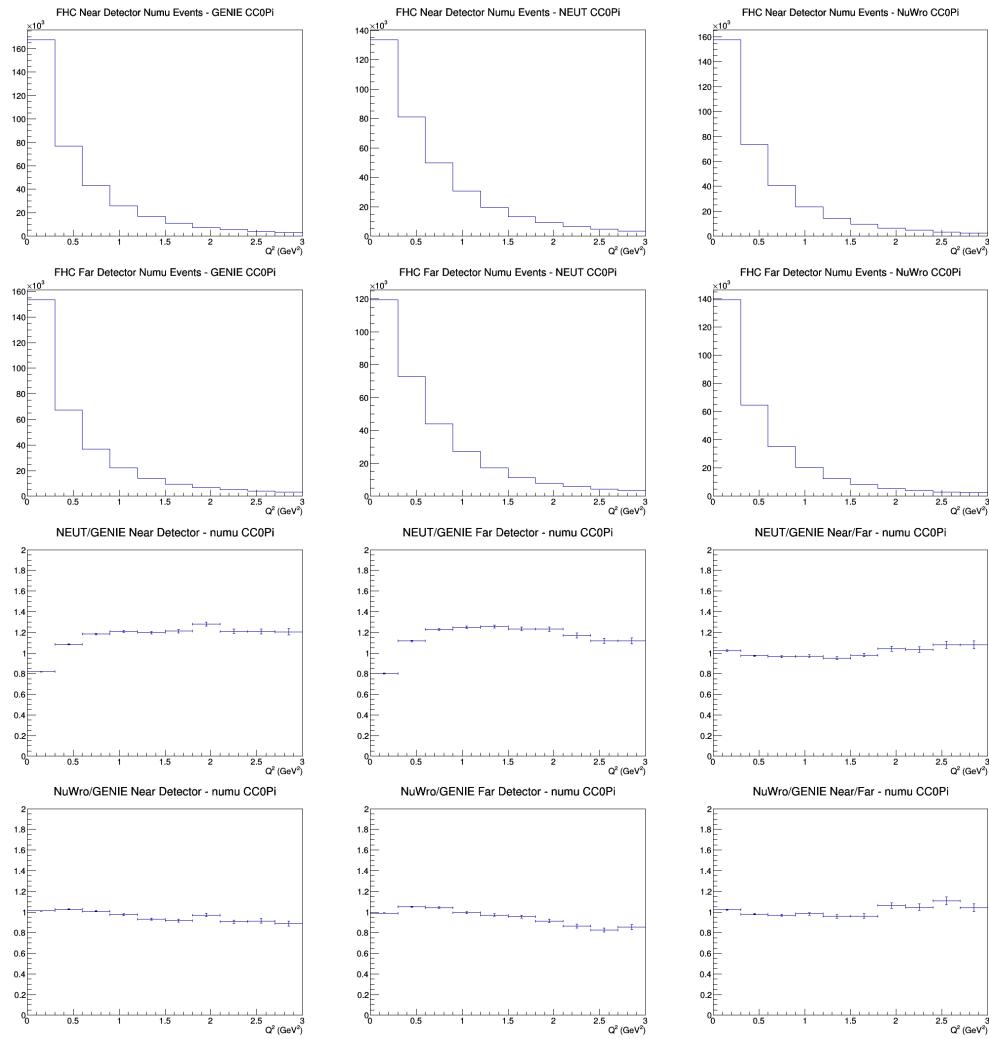
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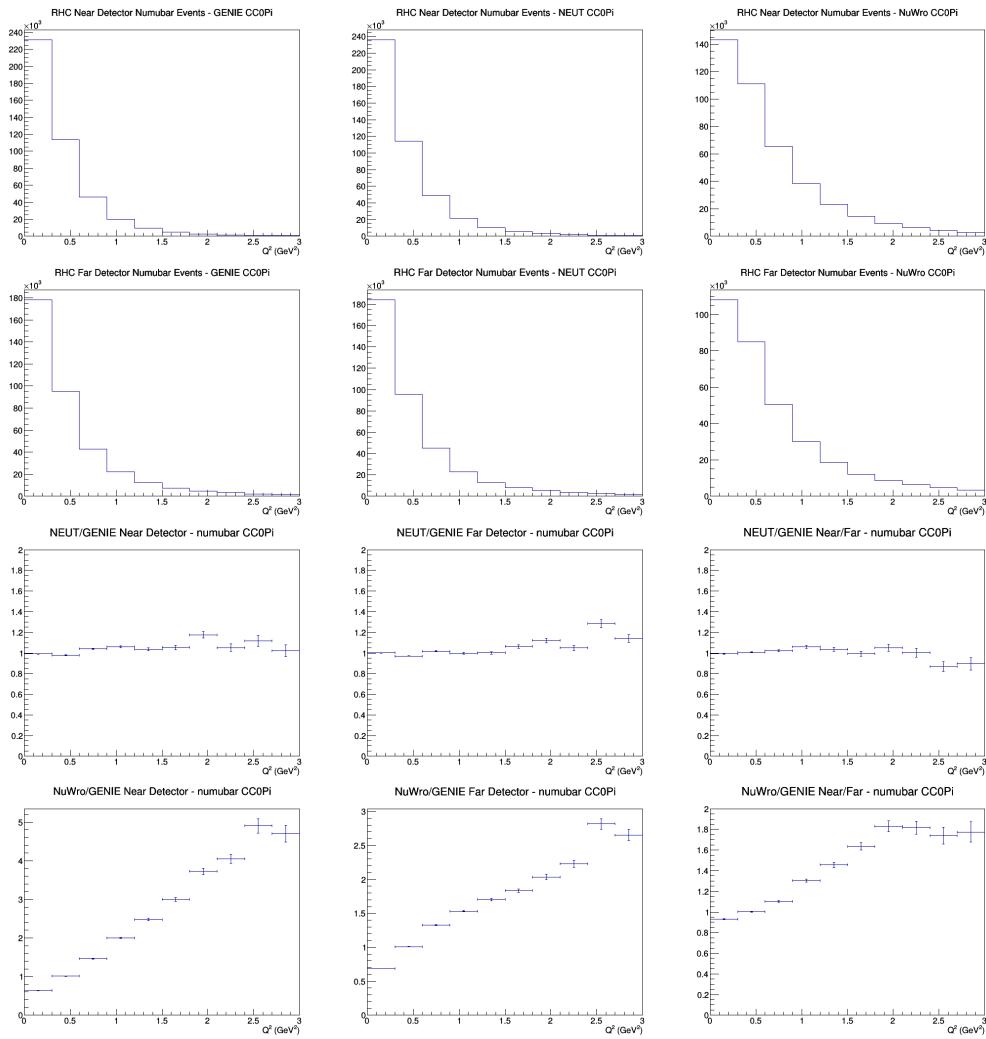
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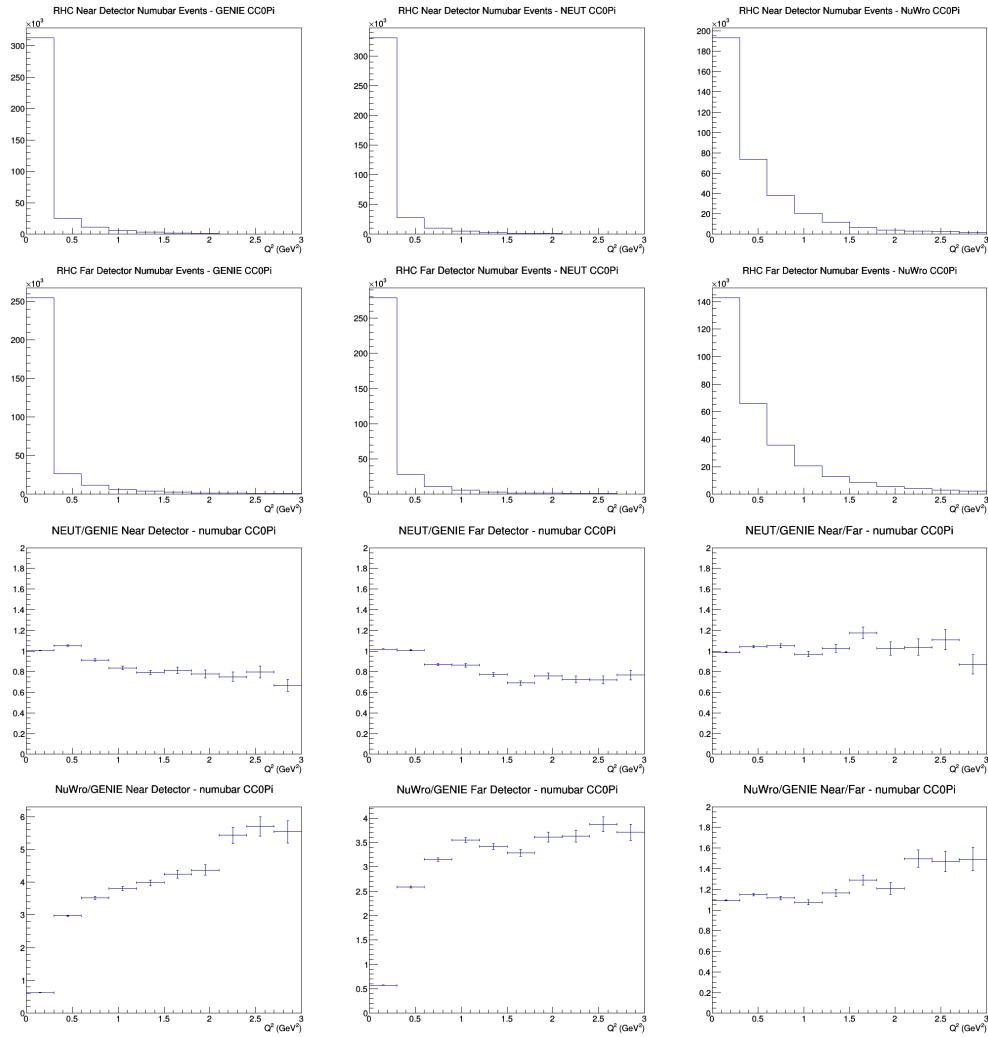
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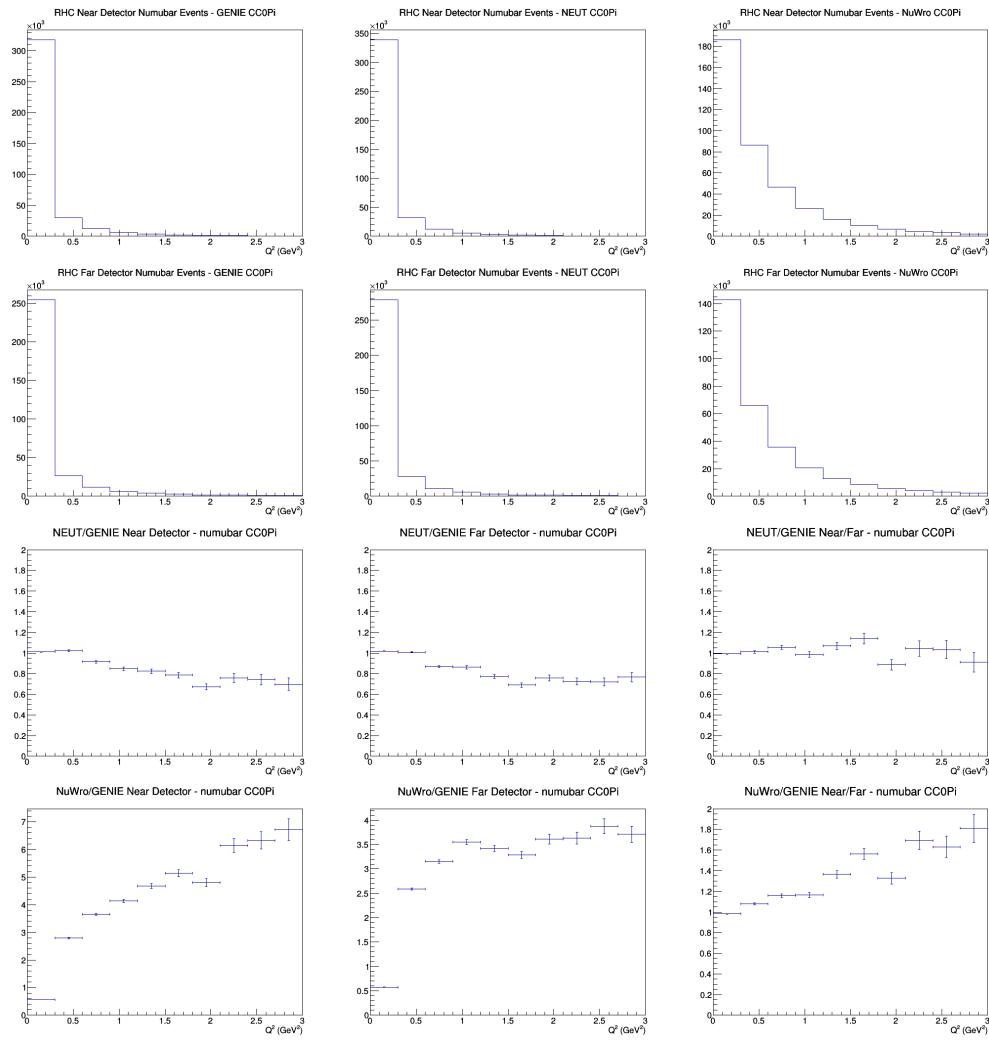
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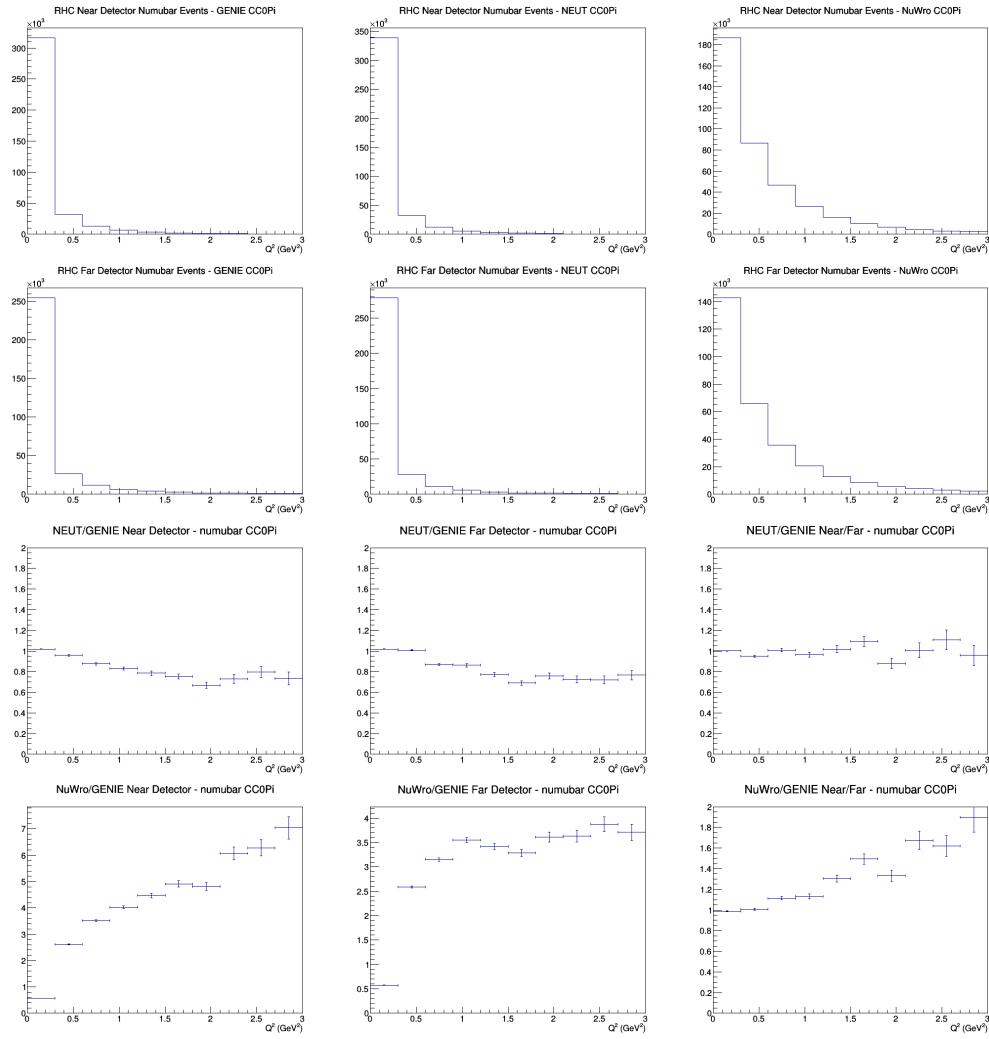
4.22 numubar CC0Pi FGT efficiencies



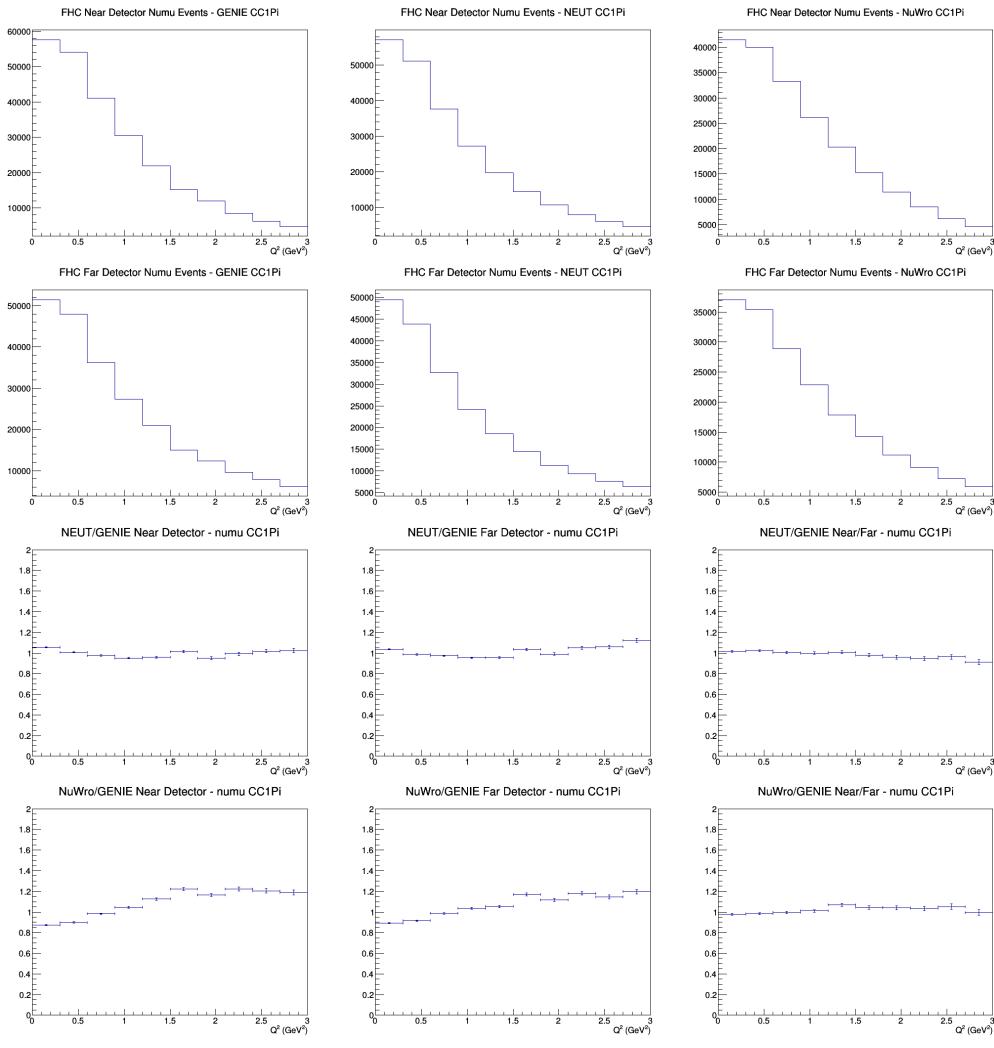
4.23 numubar CC0Pi LAr efficiencies



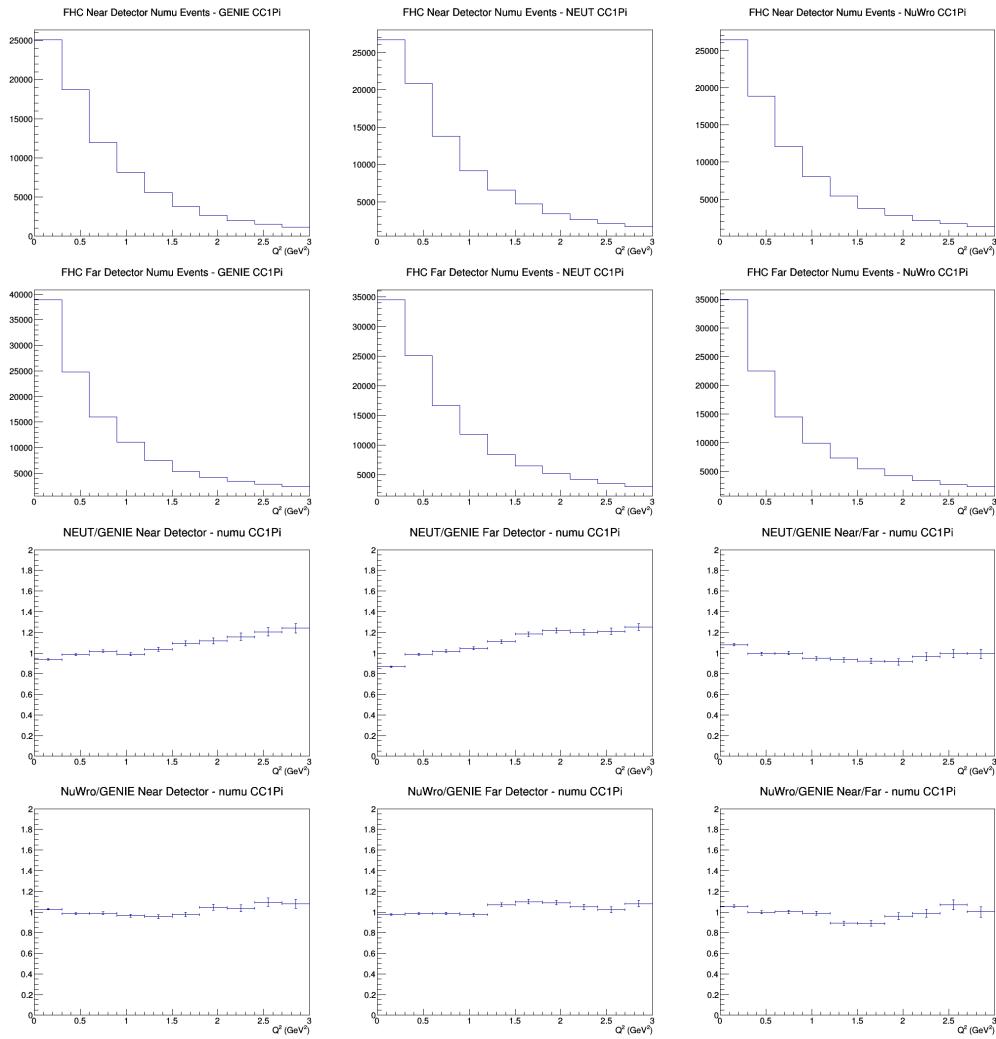
4.24 numubar CC0Pi GAr efficiencies



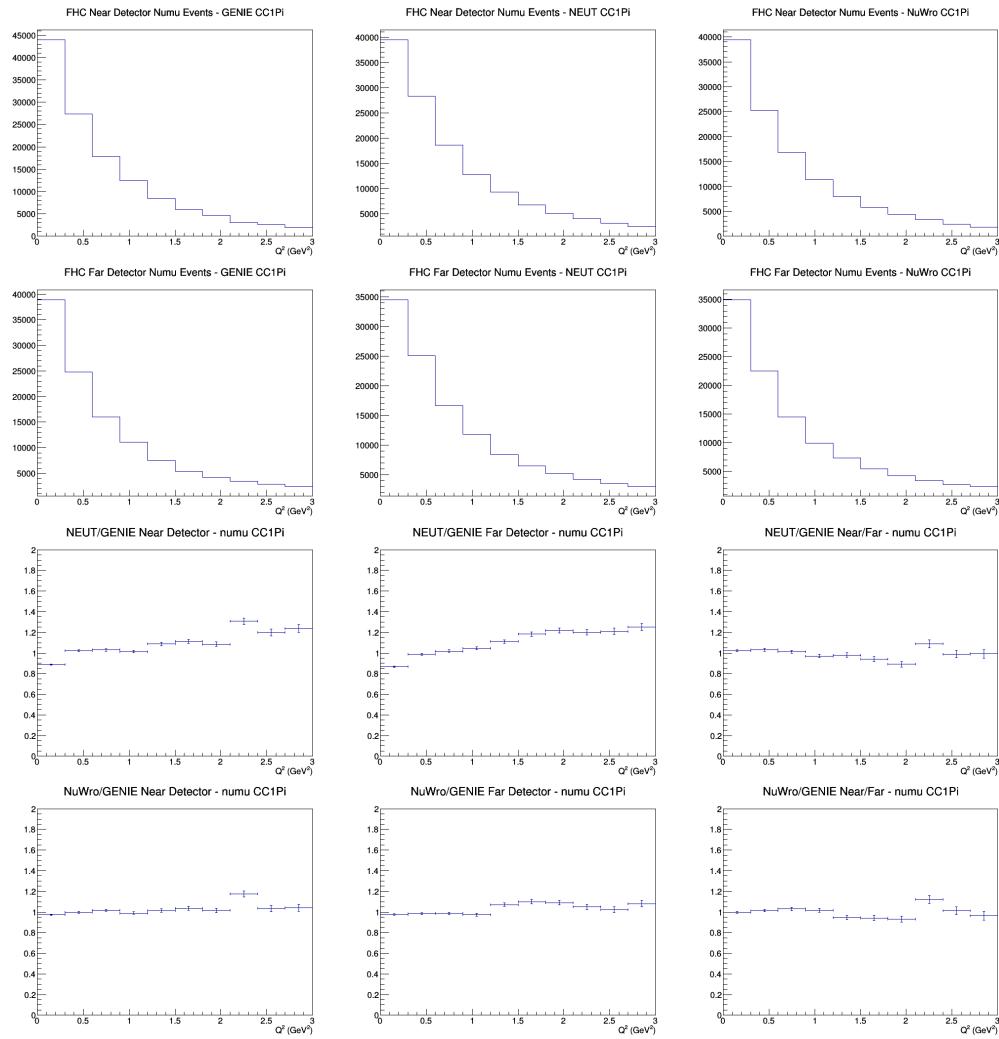
4.25 numu CC1Pi no efficiencies



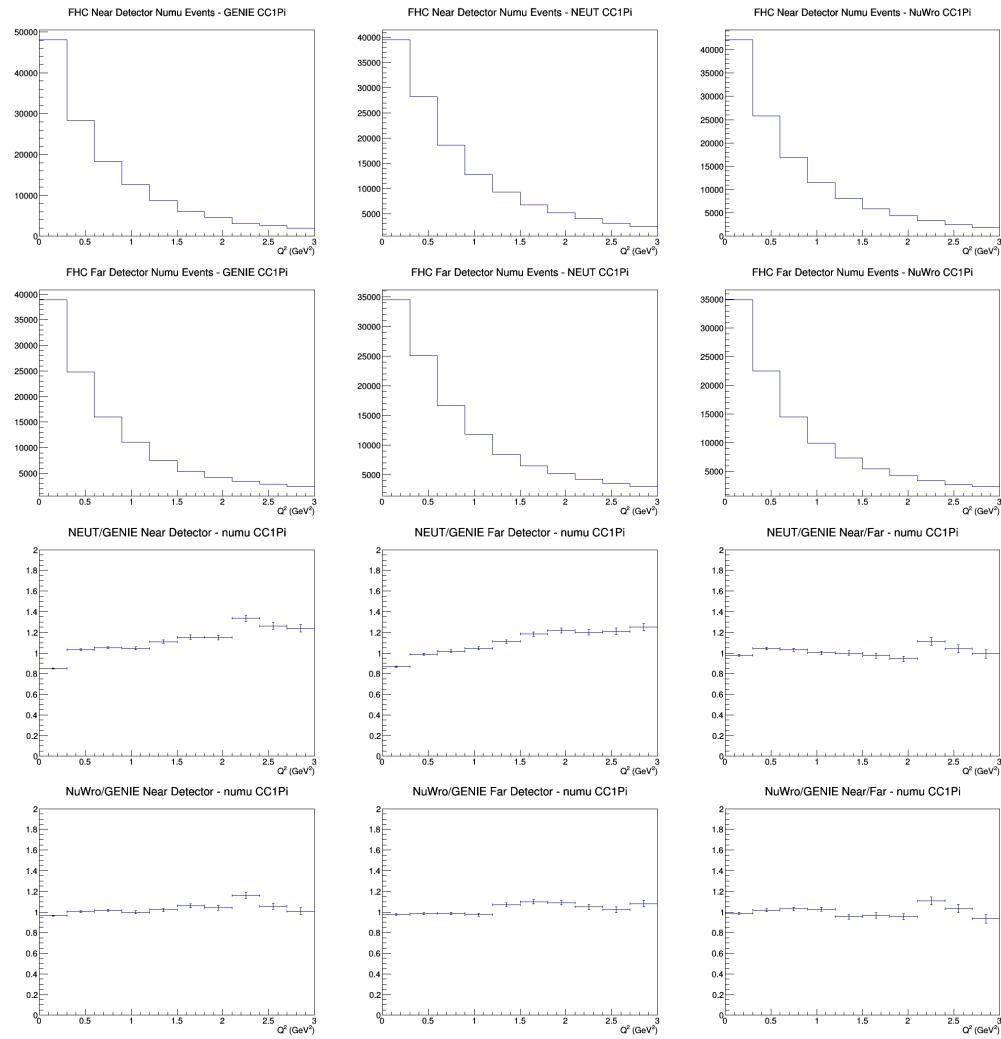
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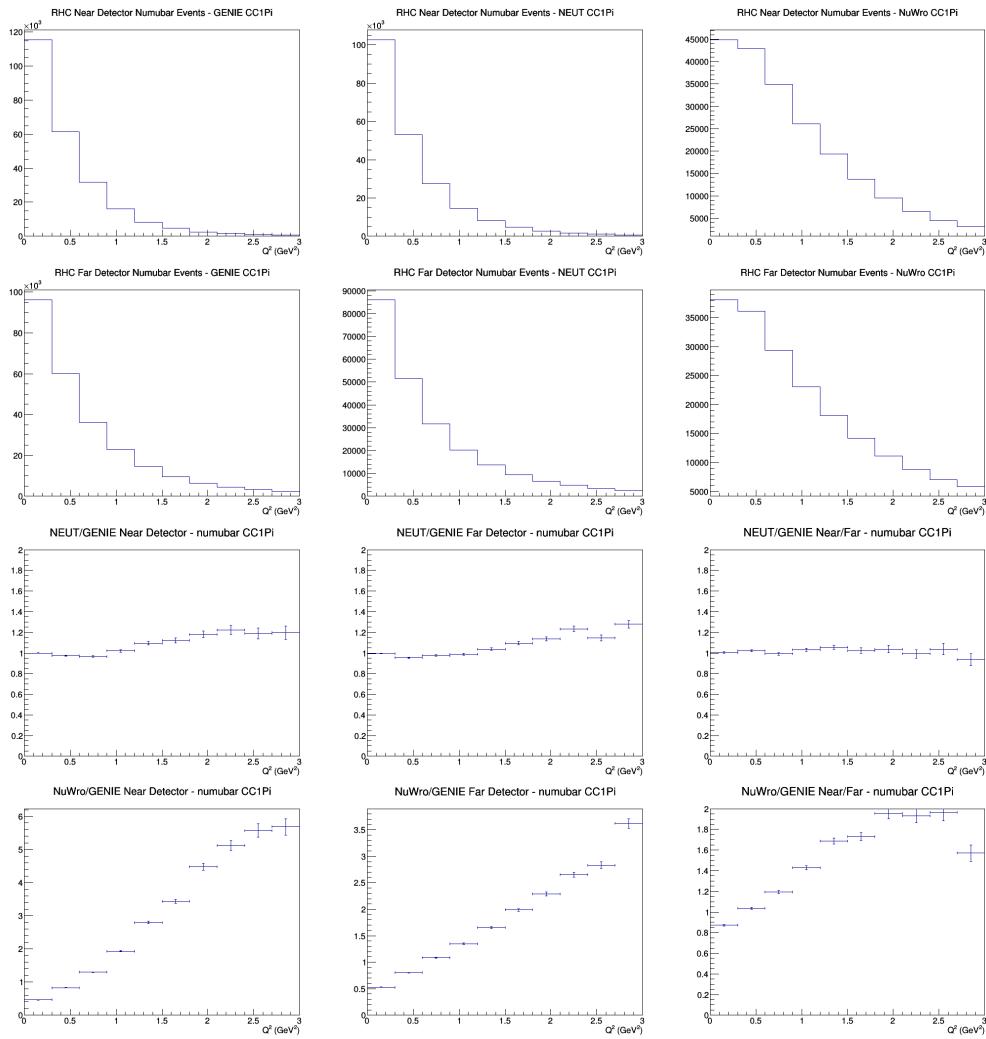
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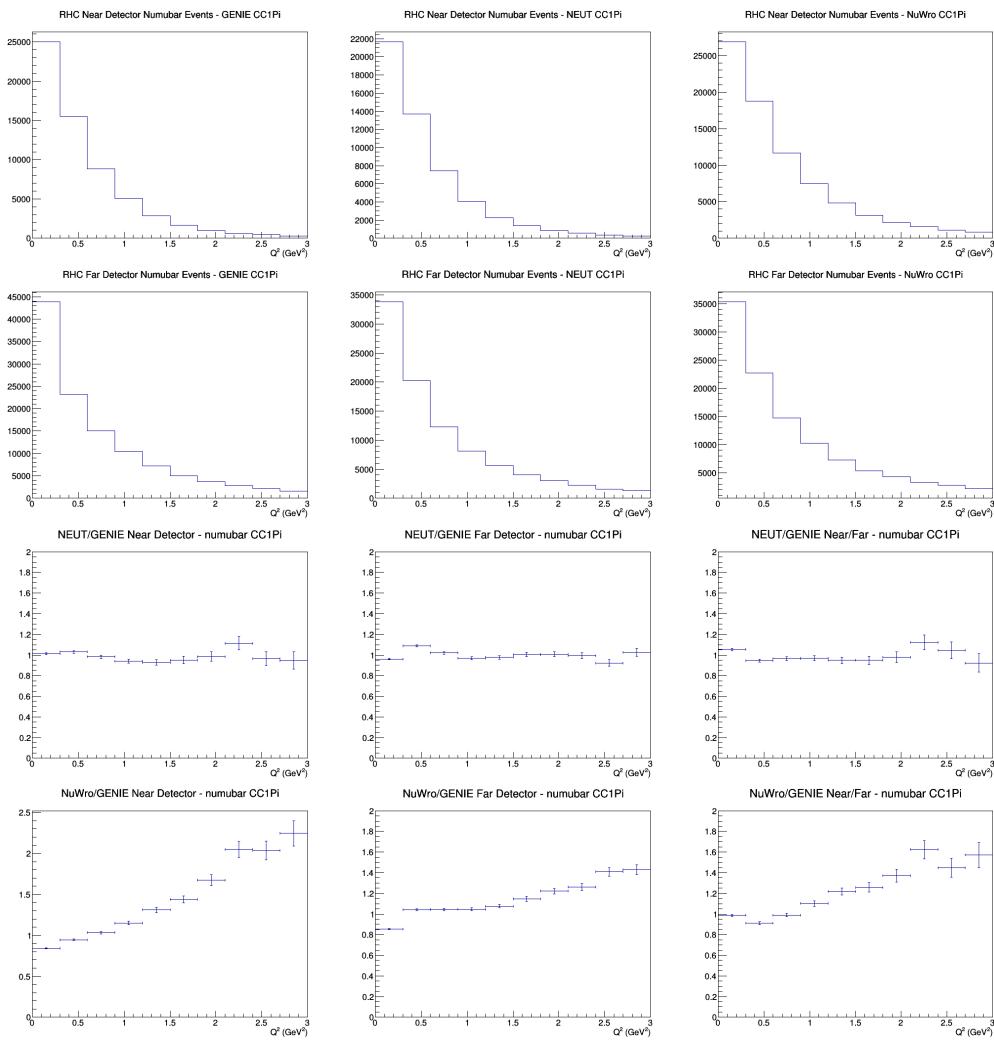
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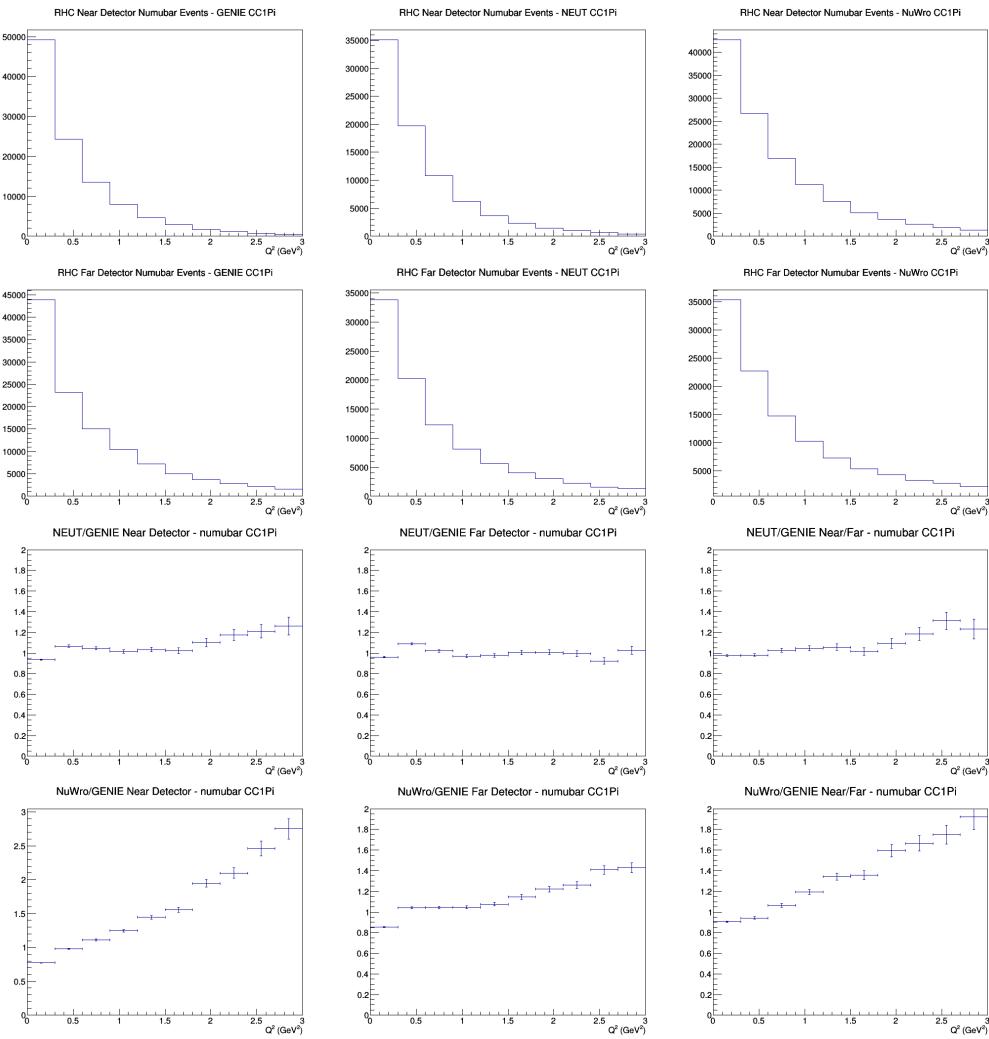
4.29 numubar CC1Pi no efficiencies



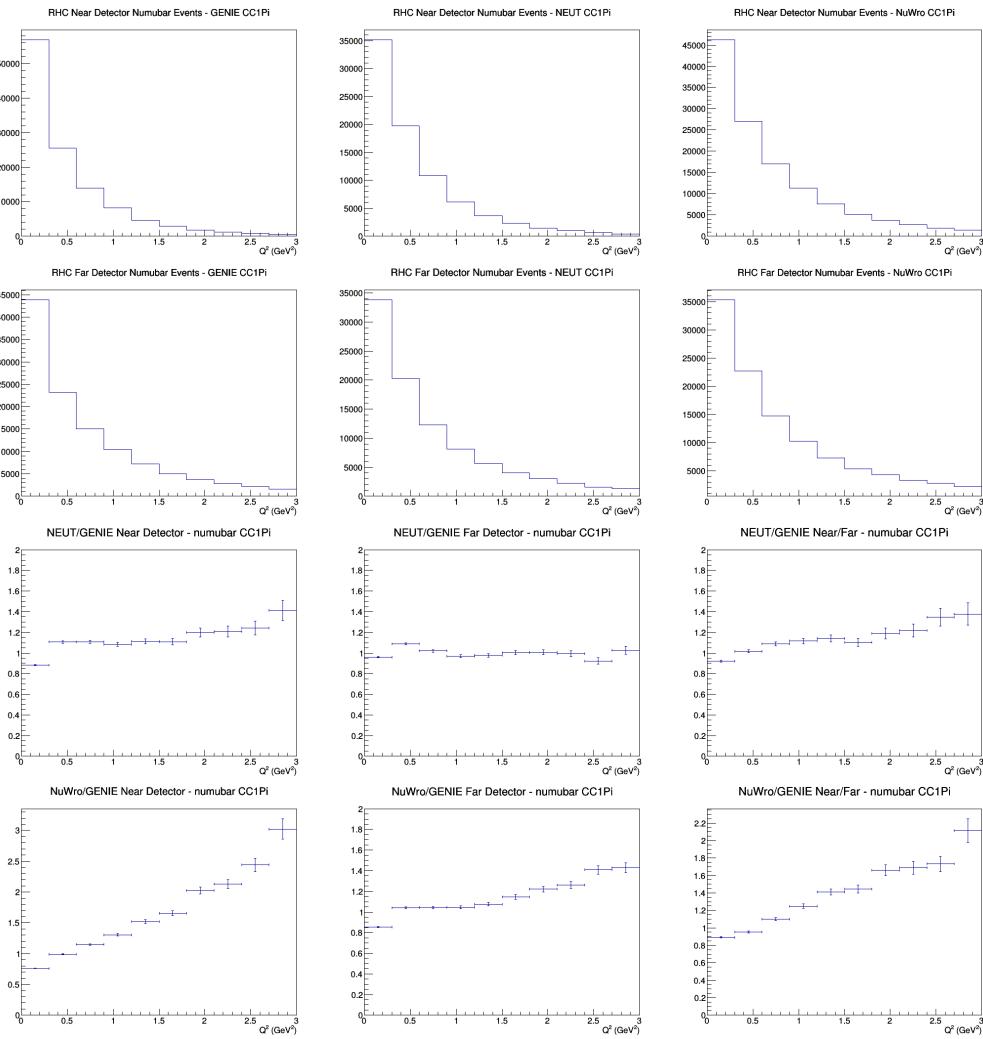
4.30 numubar CC1Pi FGT efficiencies



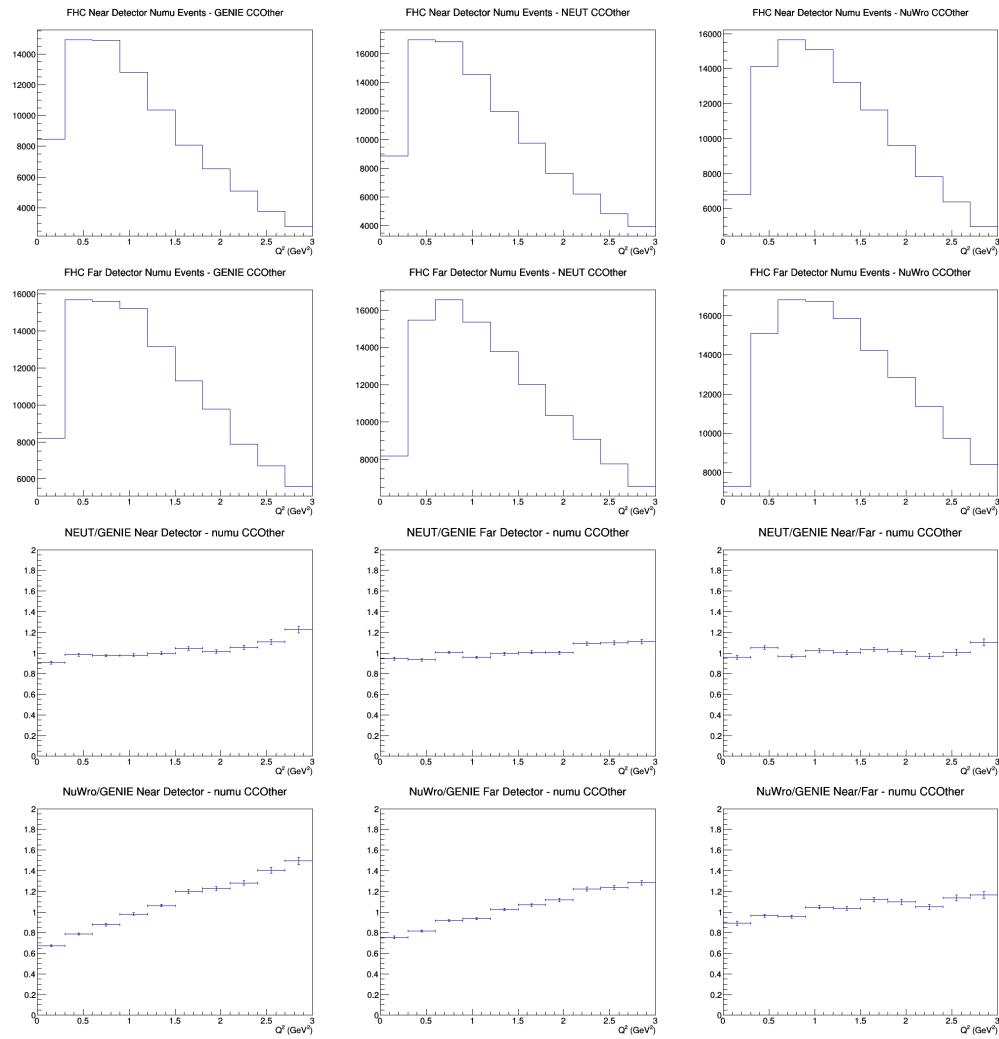
4.31 numubar CC1Pi LAr efficiencies



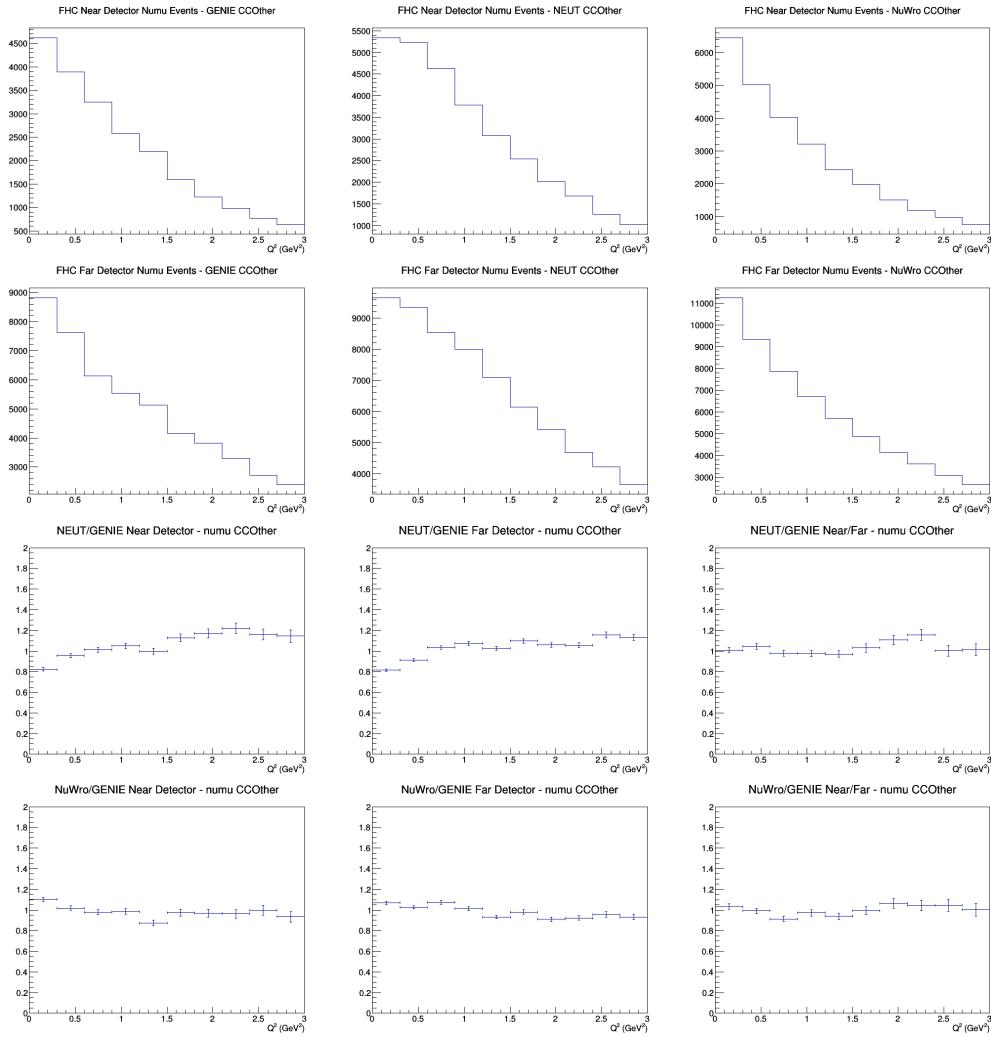
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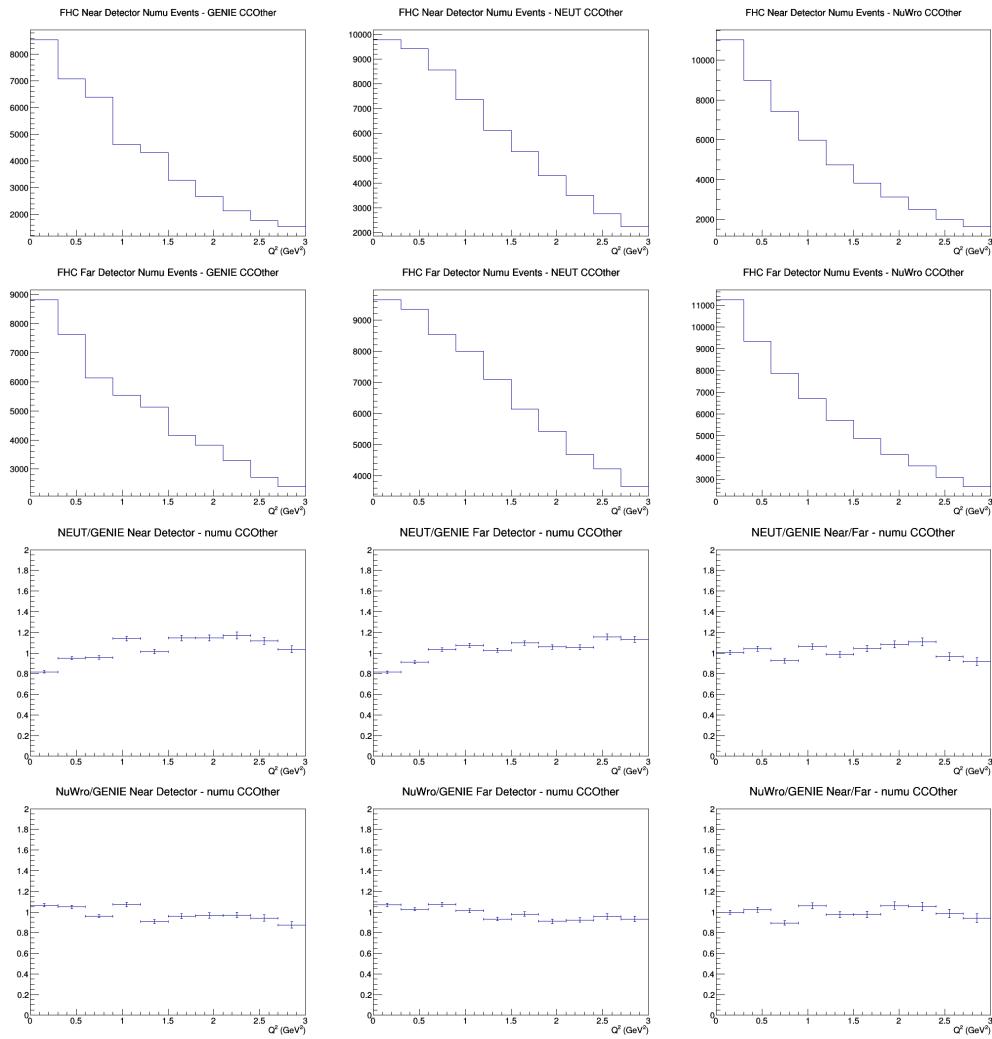
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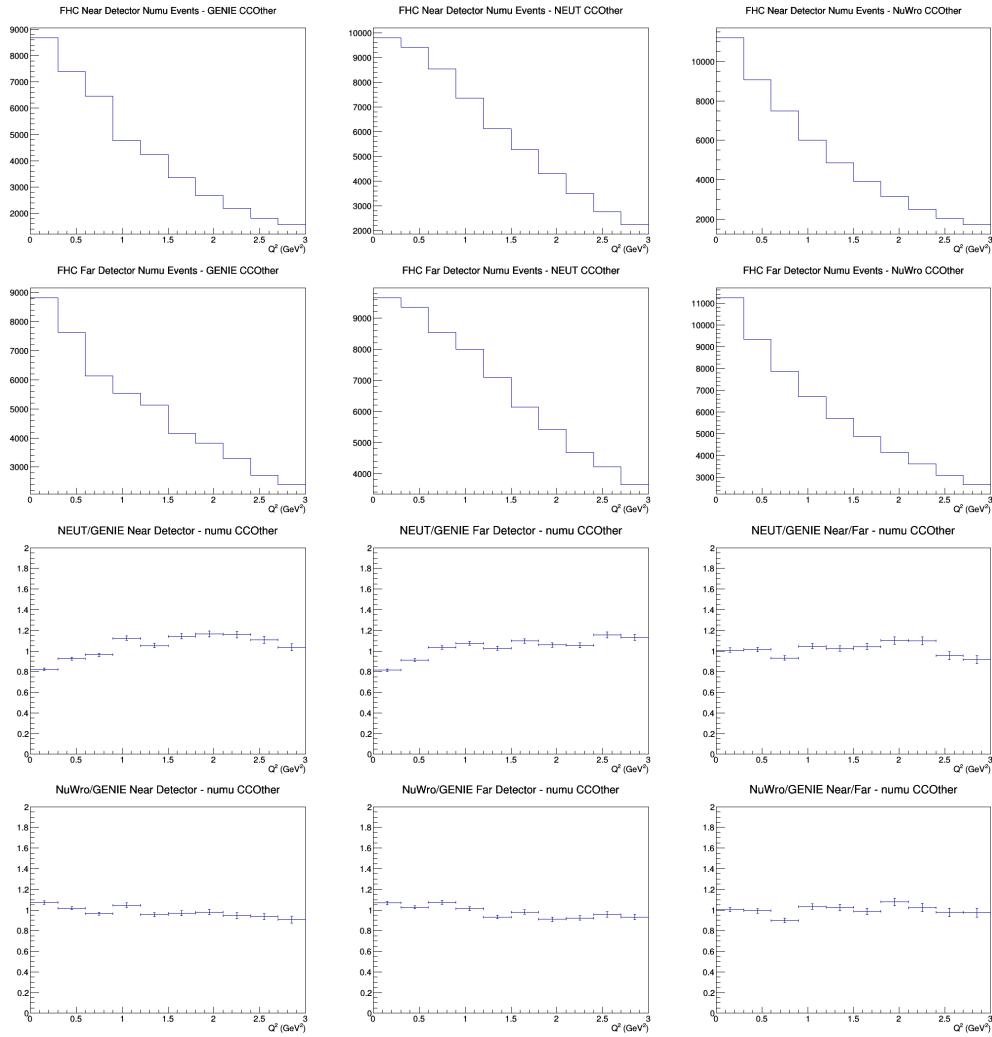
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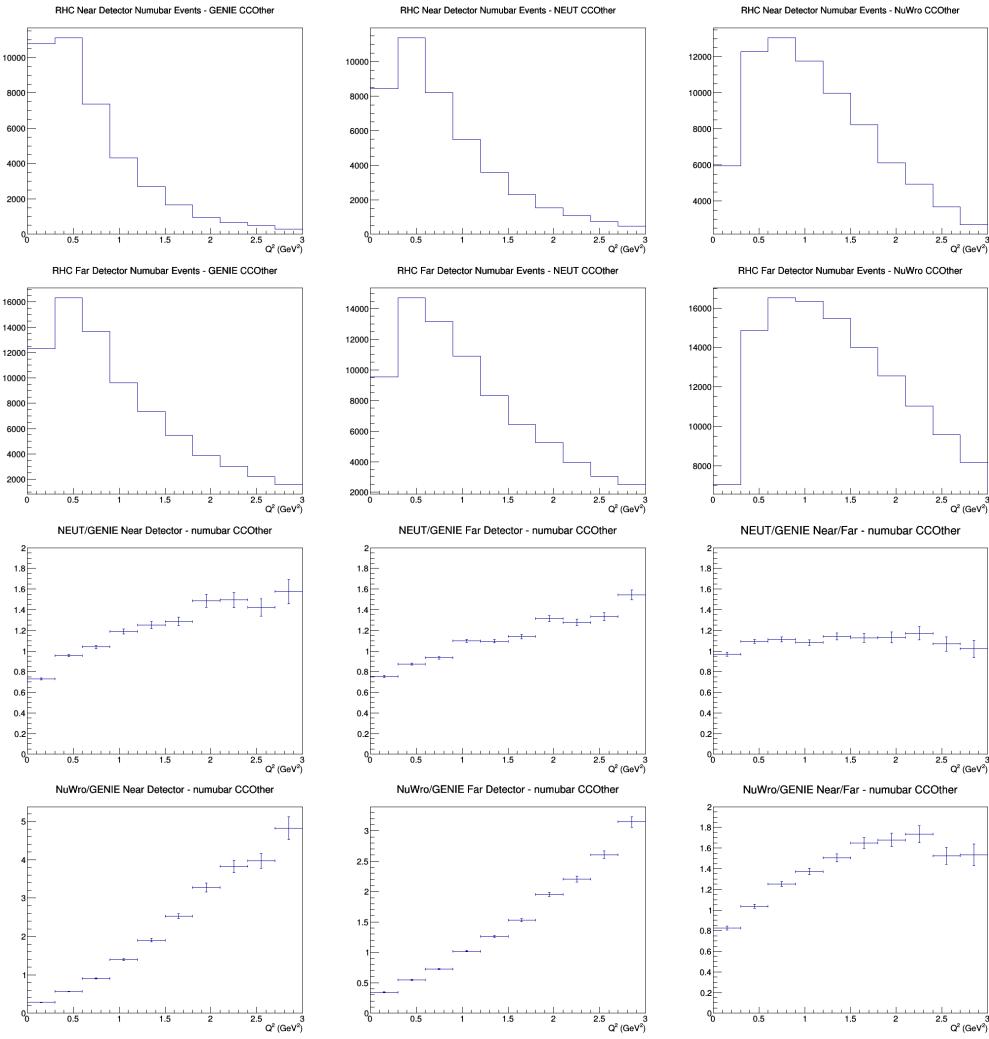
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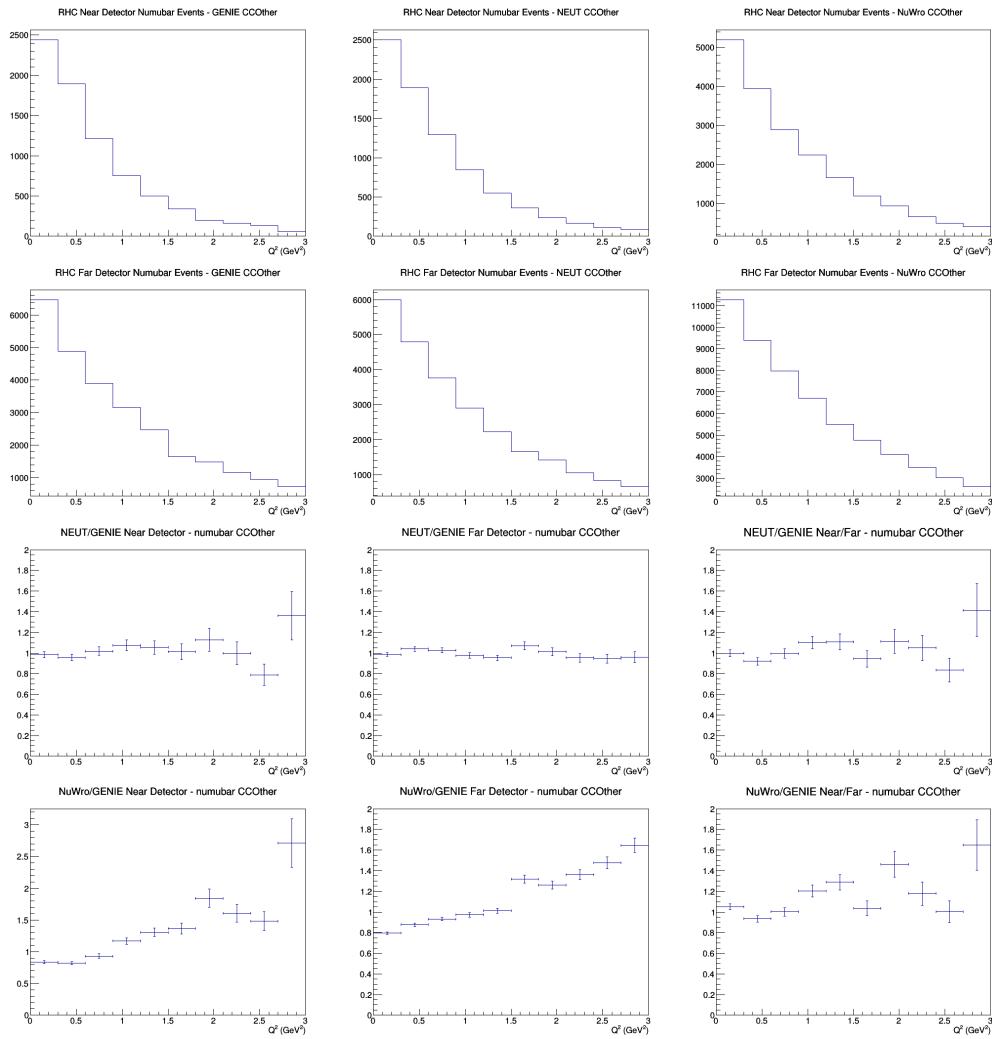
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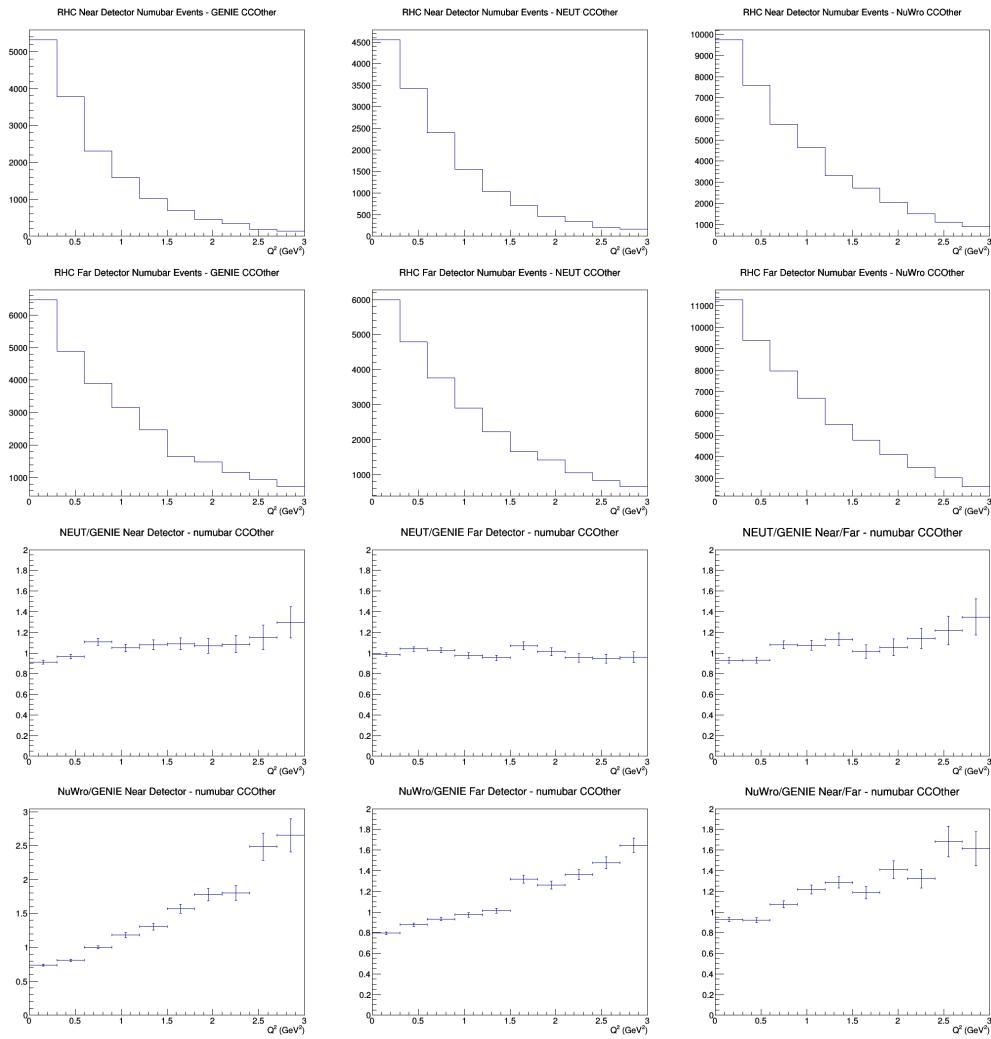
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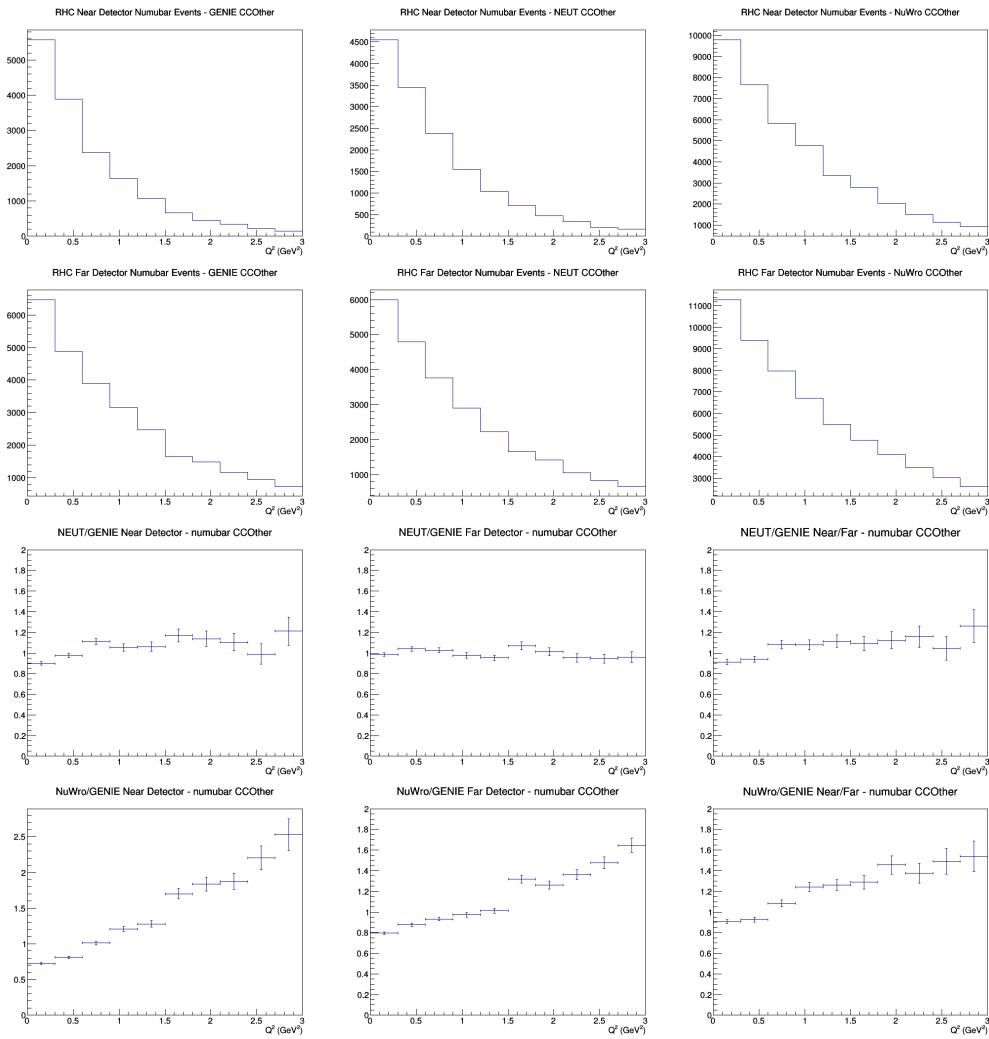
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4.39 numubar CCOther LAr efficiencies

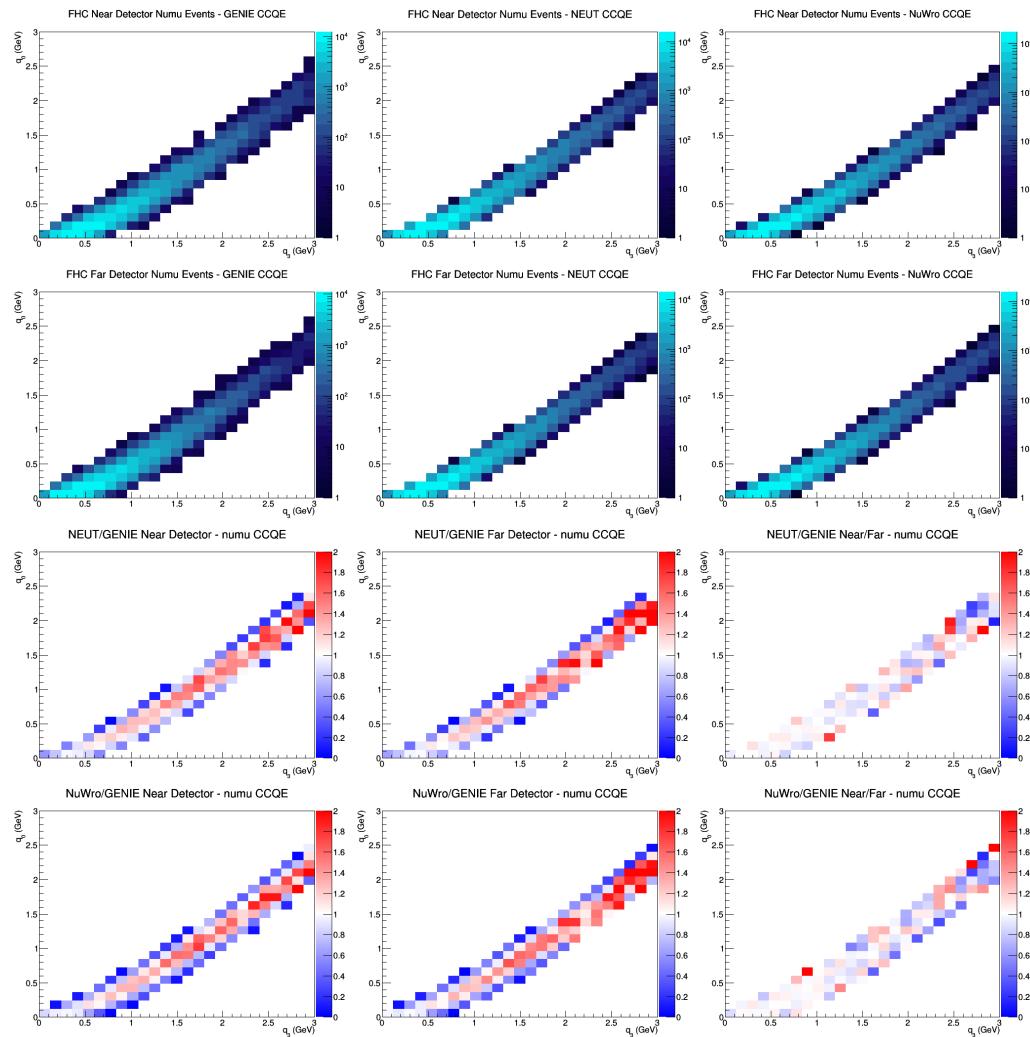


4.40 numubar CCOther GAr efficiencies

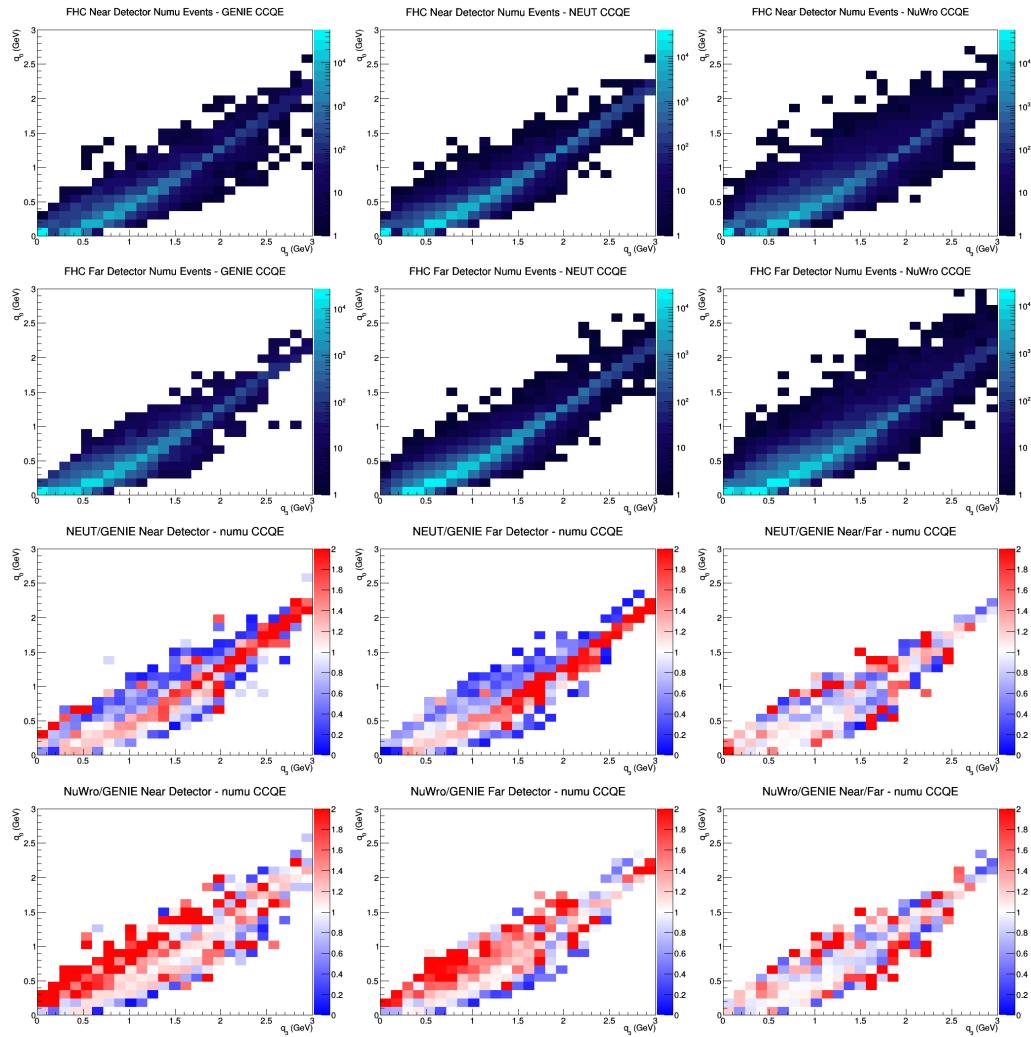


5 *vs.* Plots

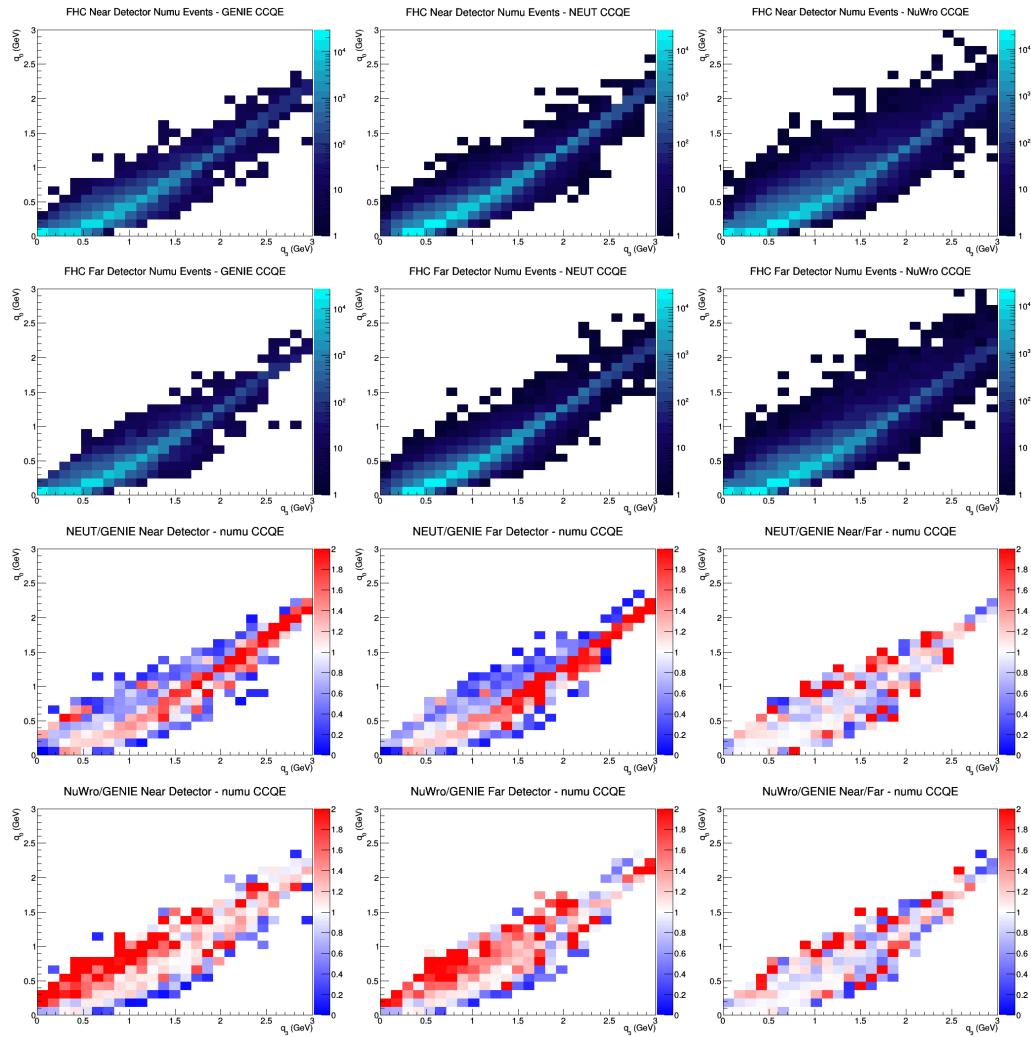
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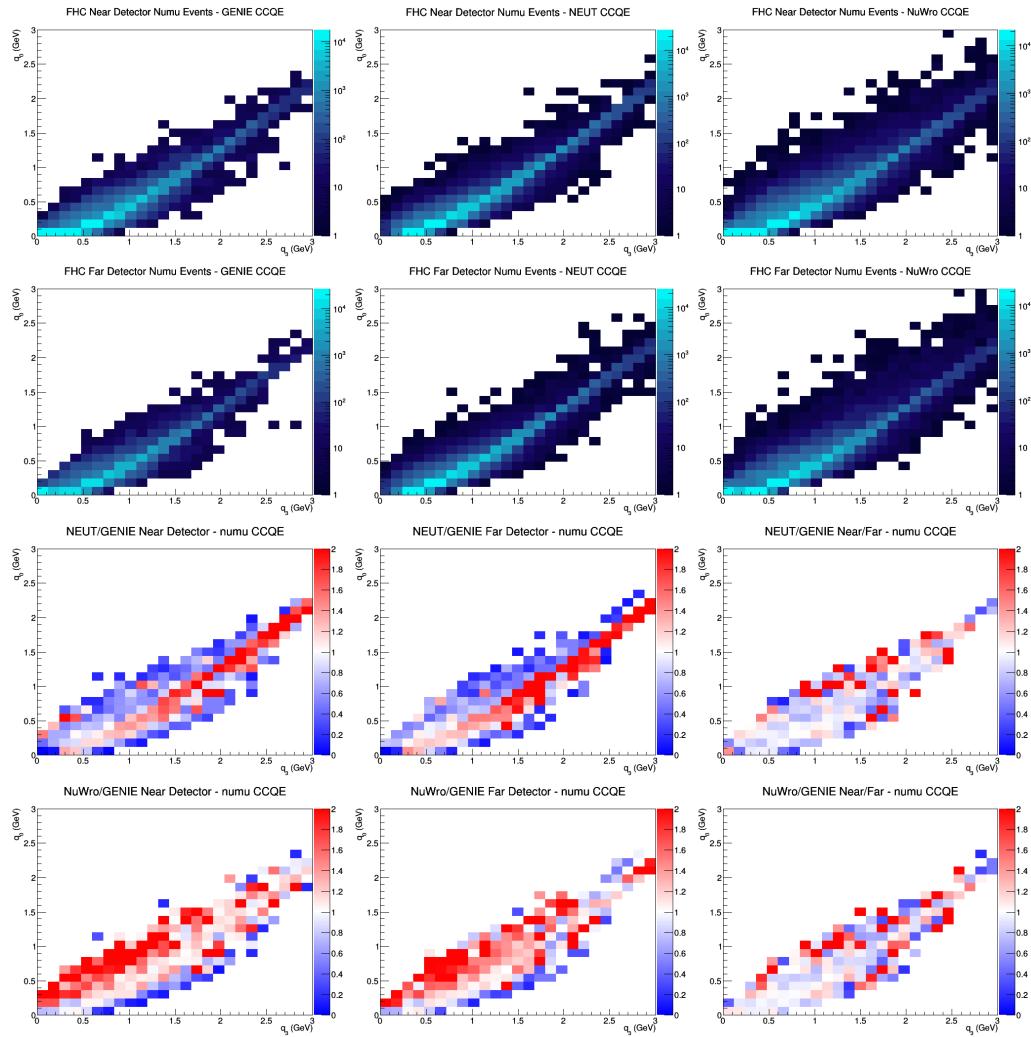
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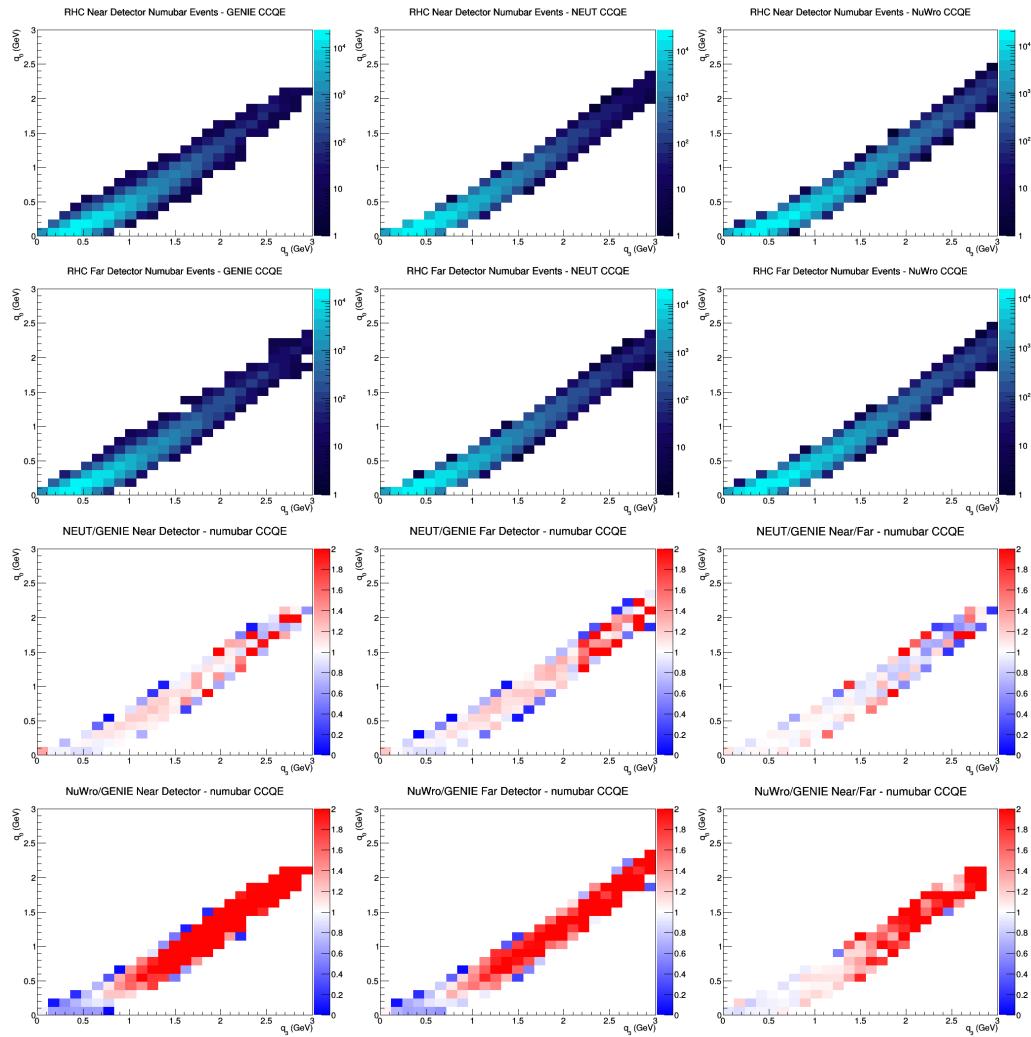
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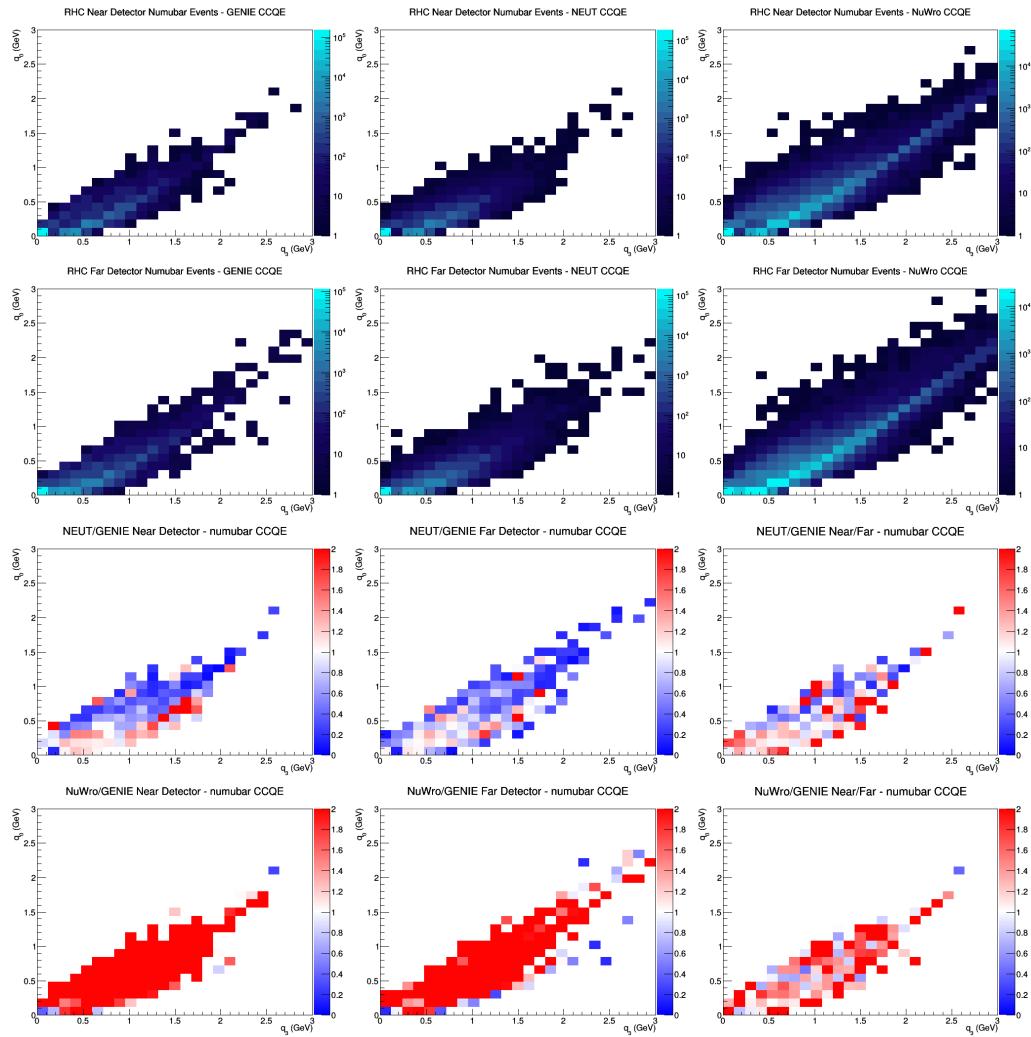
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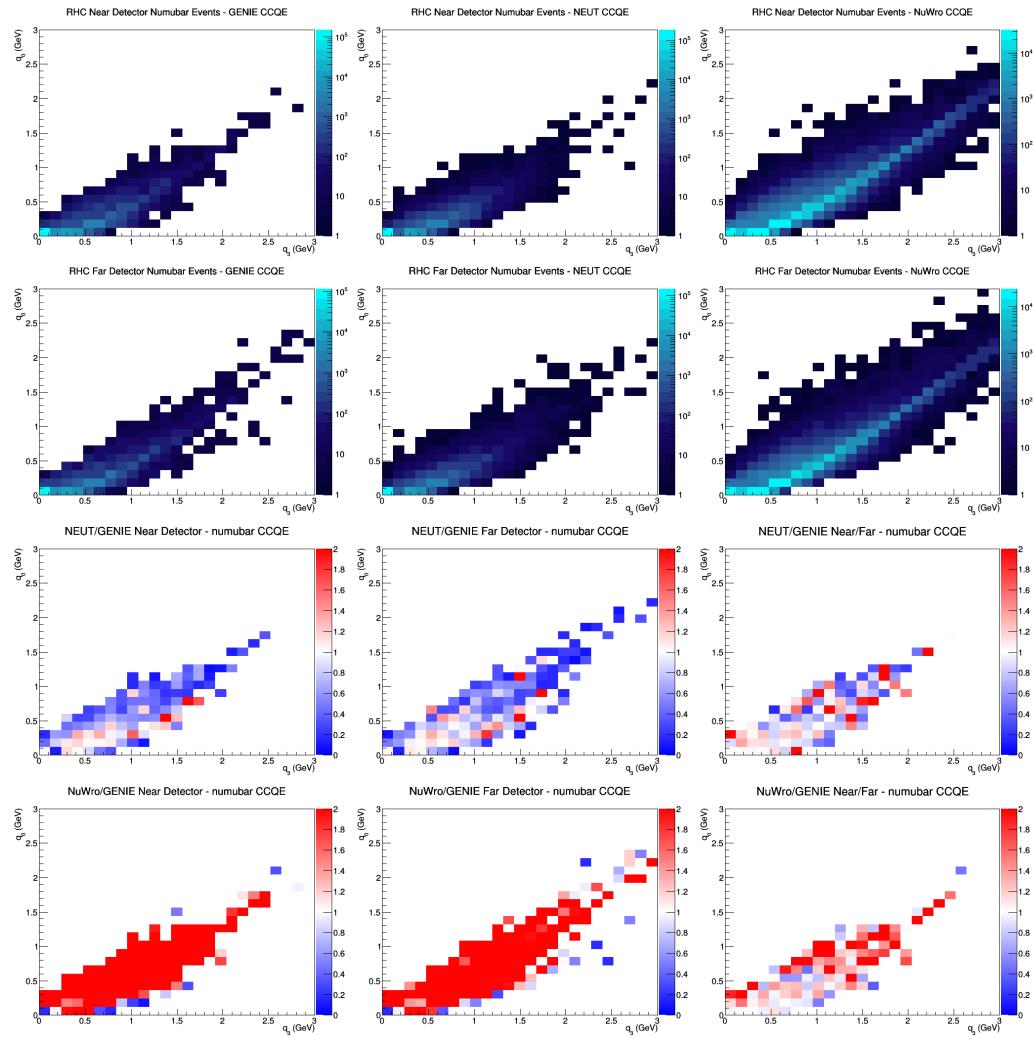
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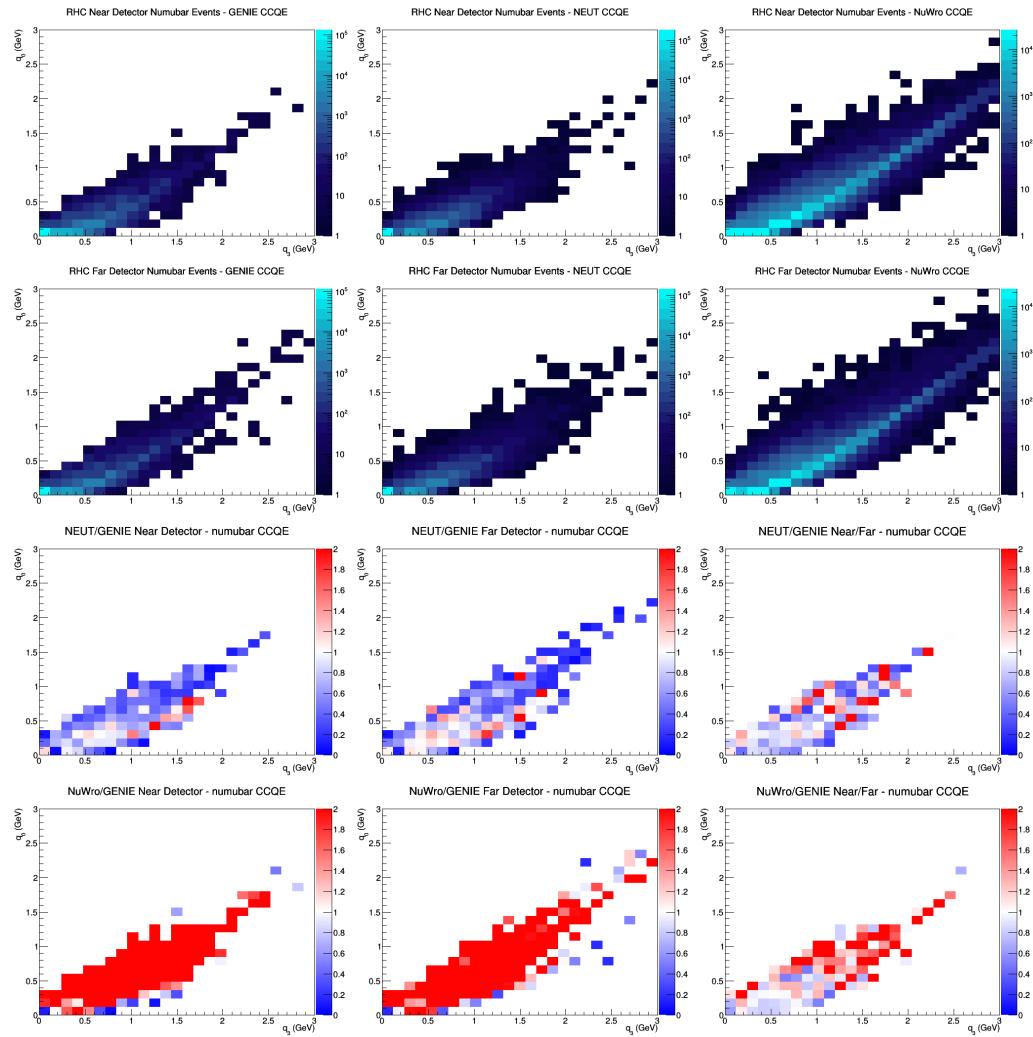
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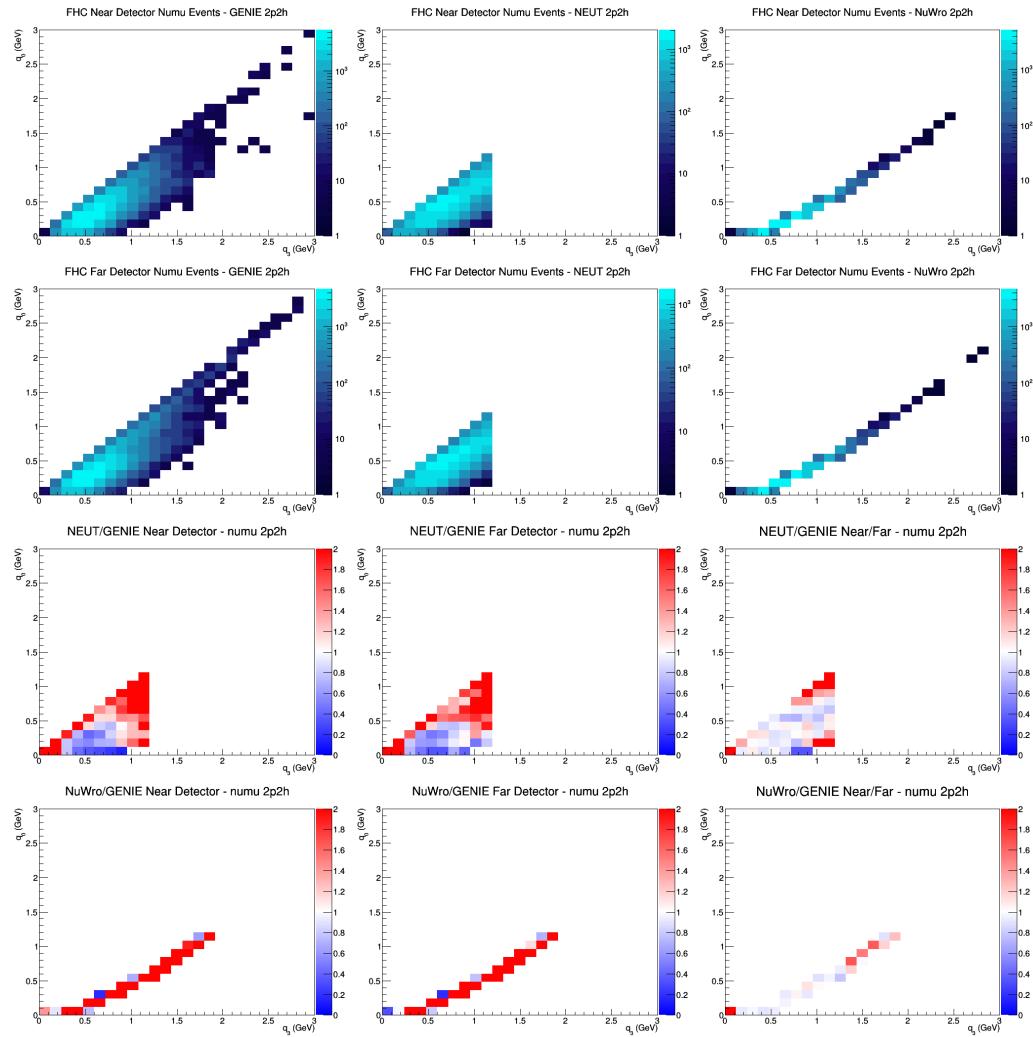
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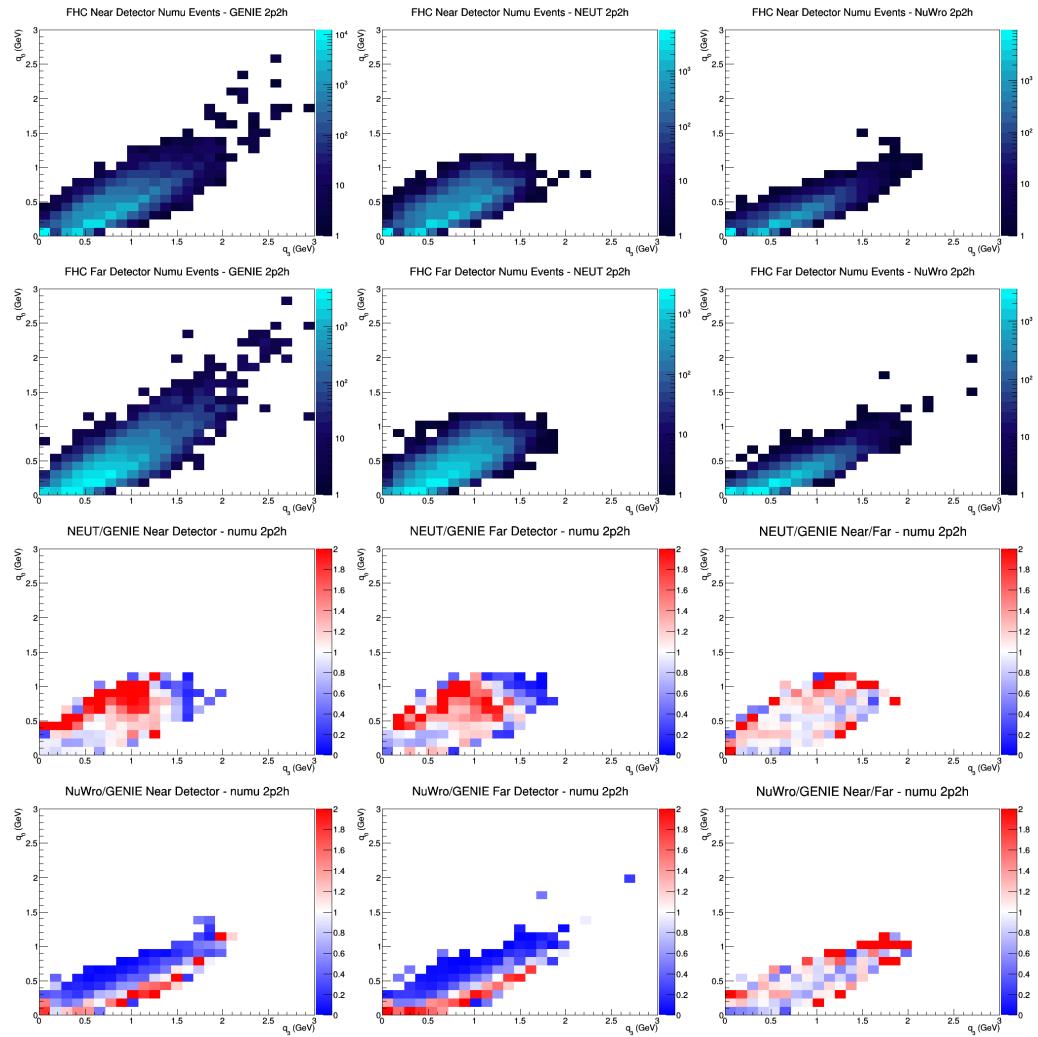
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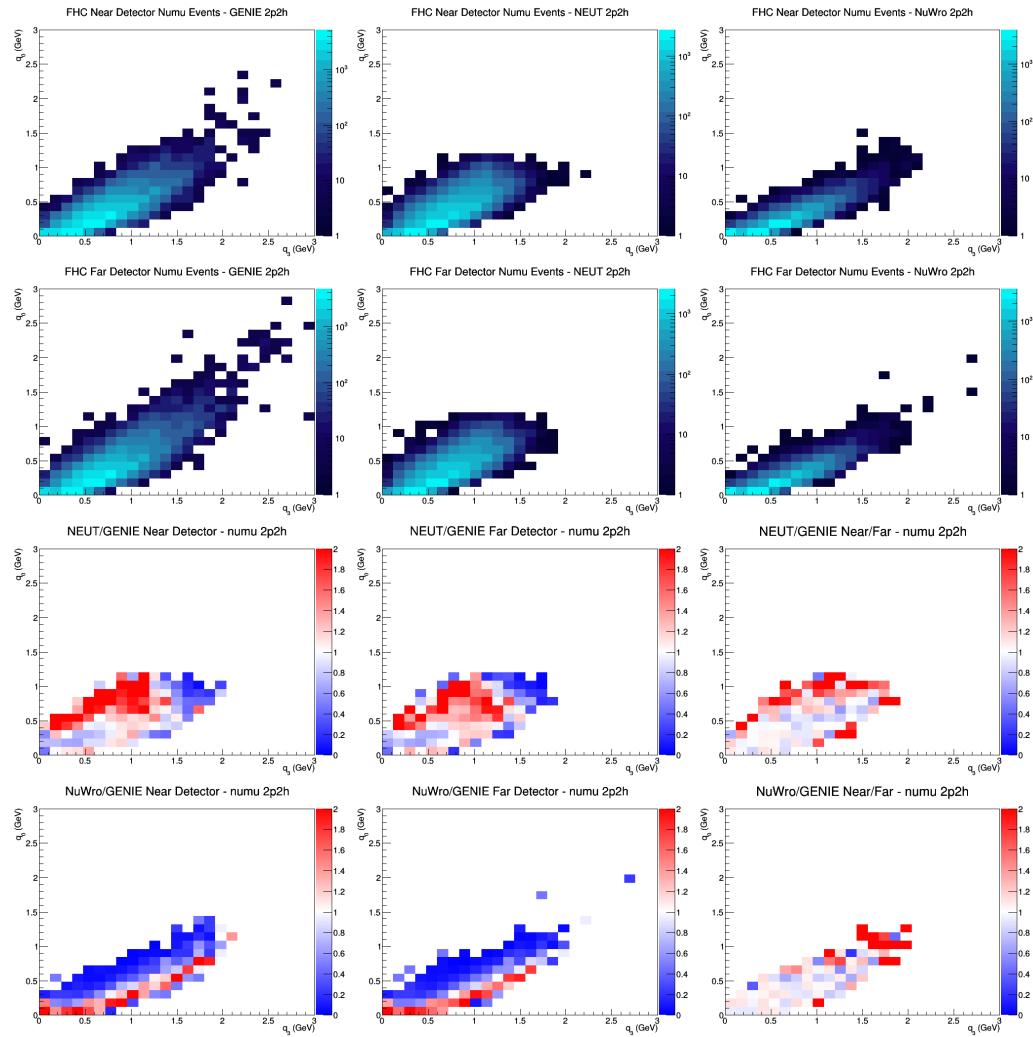
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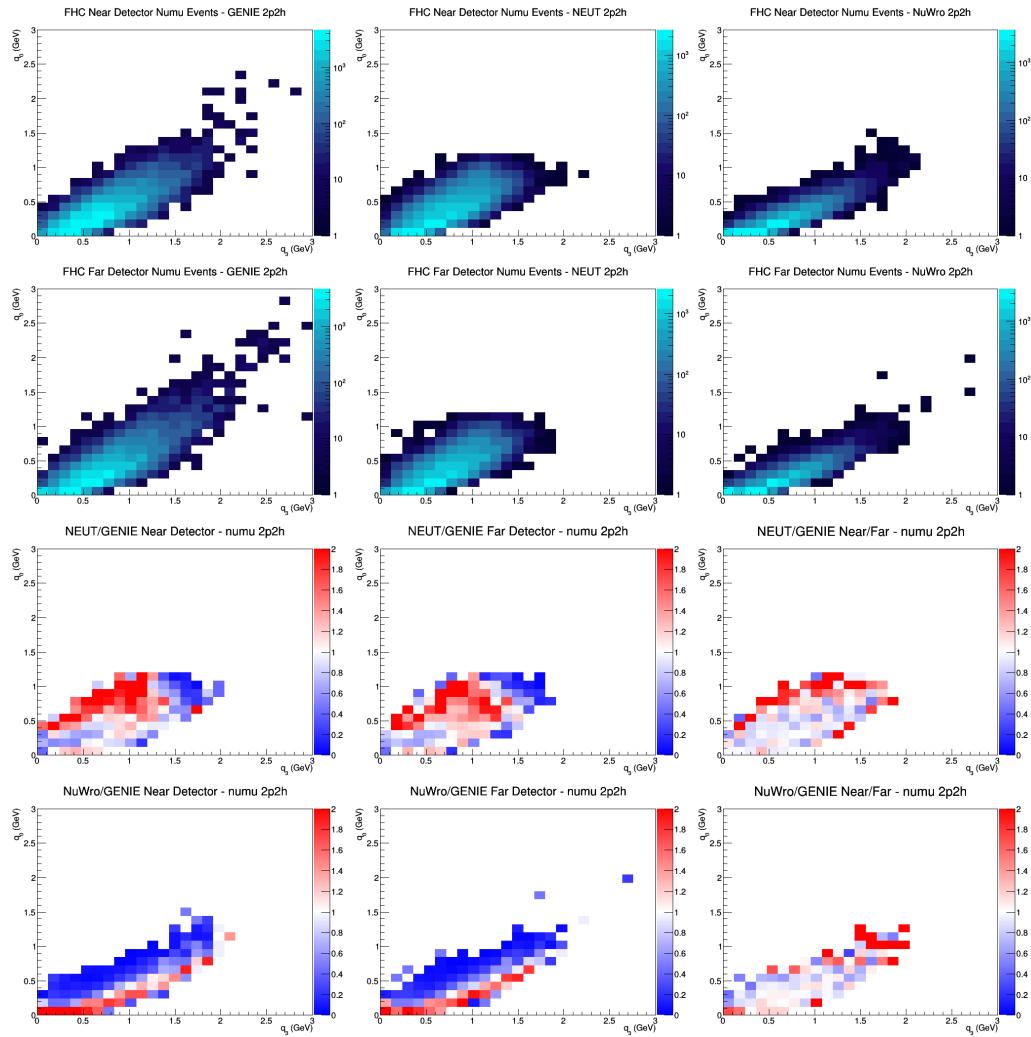
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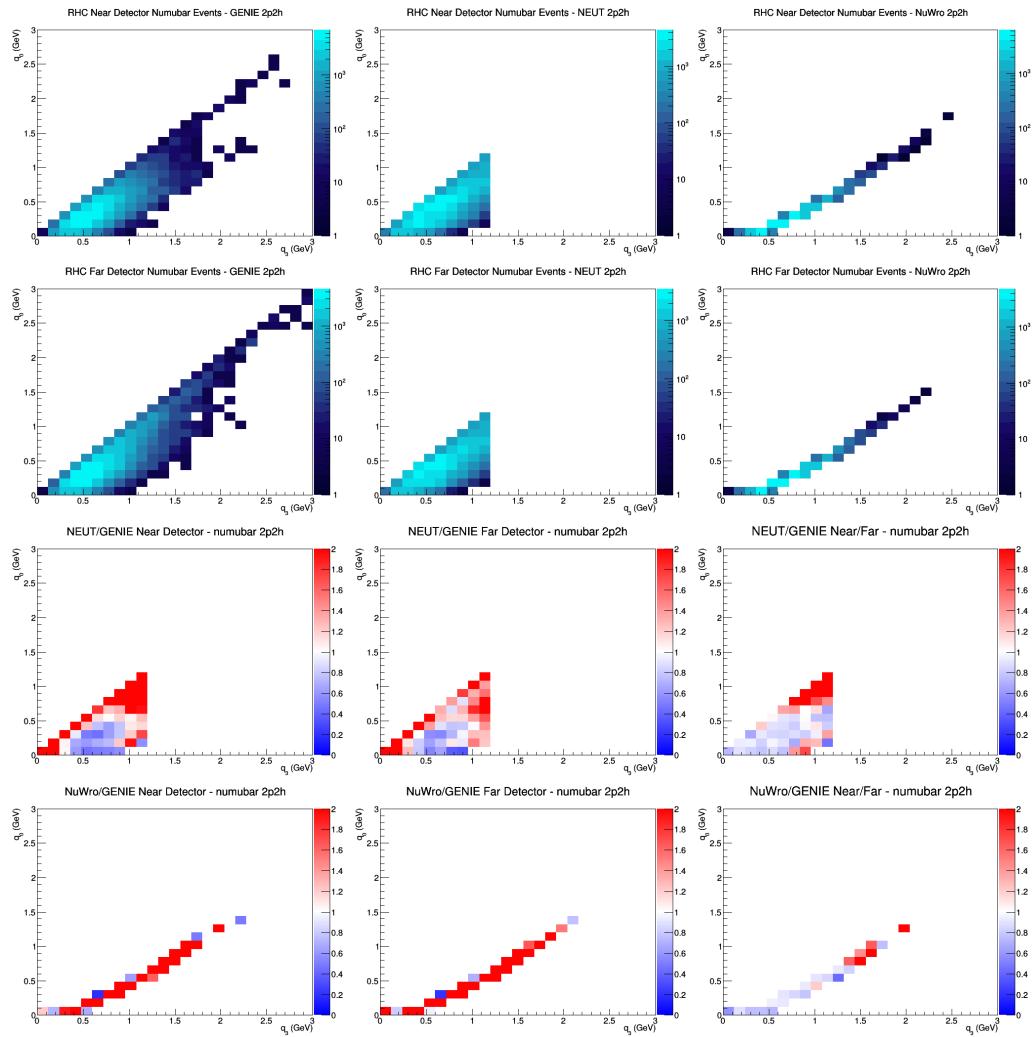
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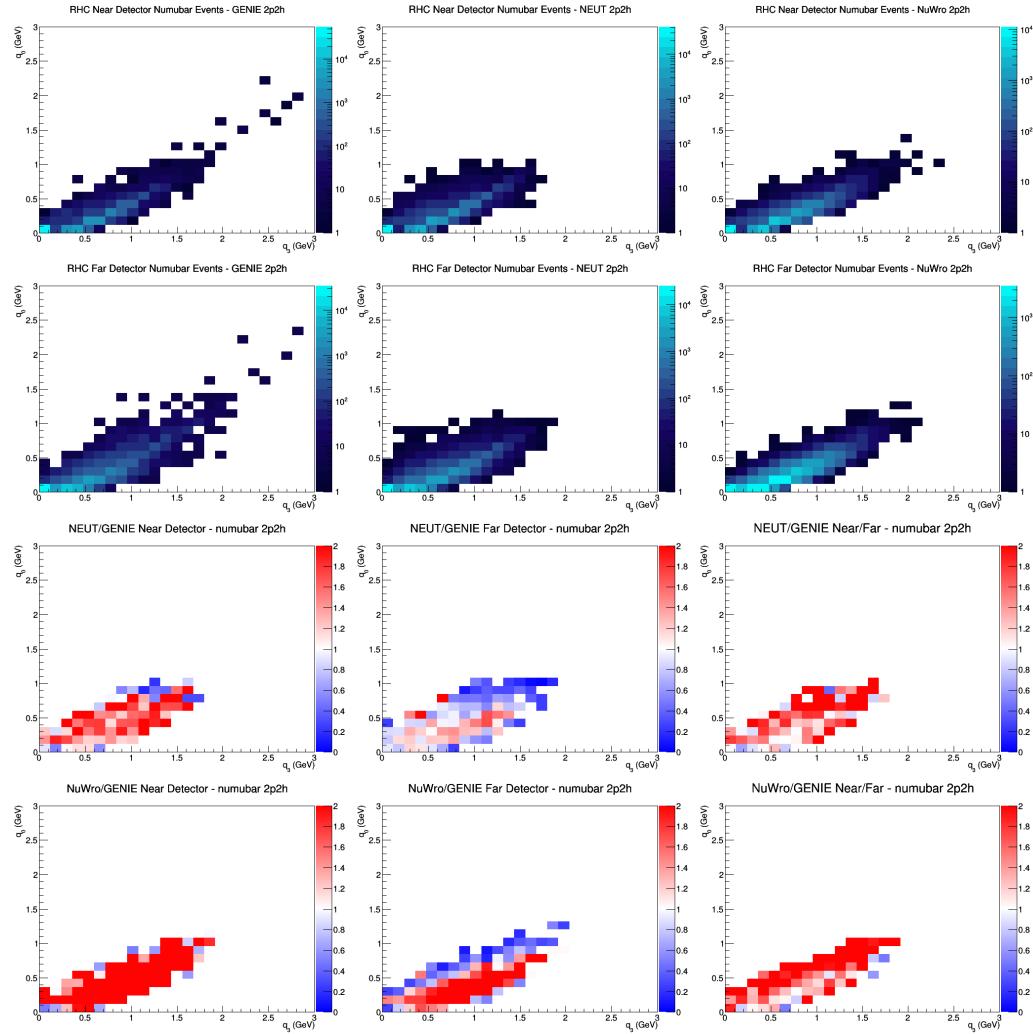
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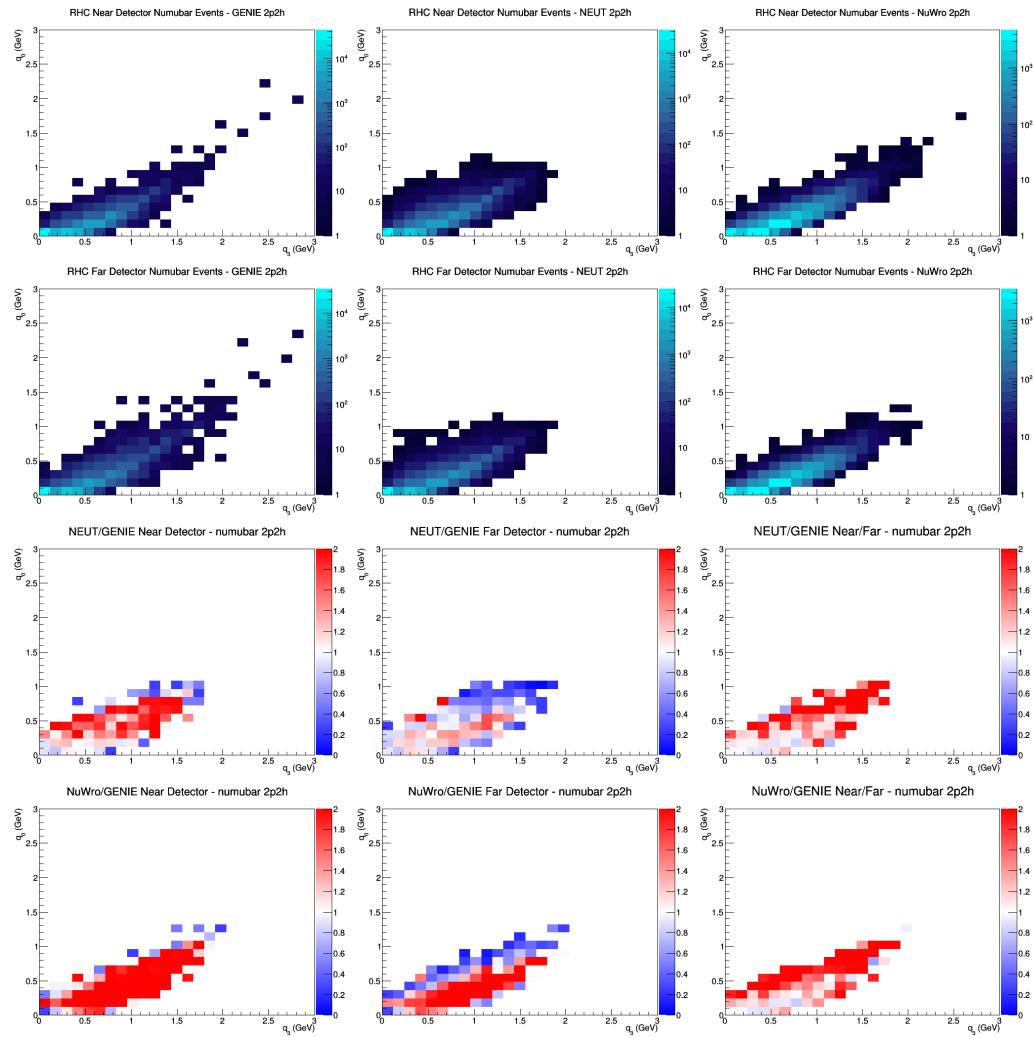
5.13 numubar 2p2h no efficiencies



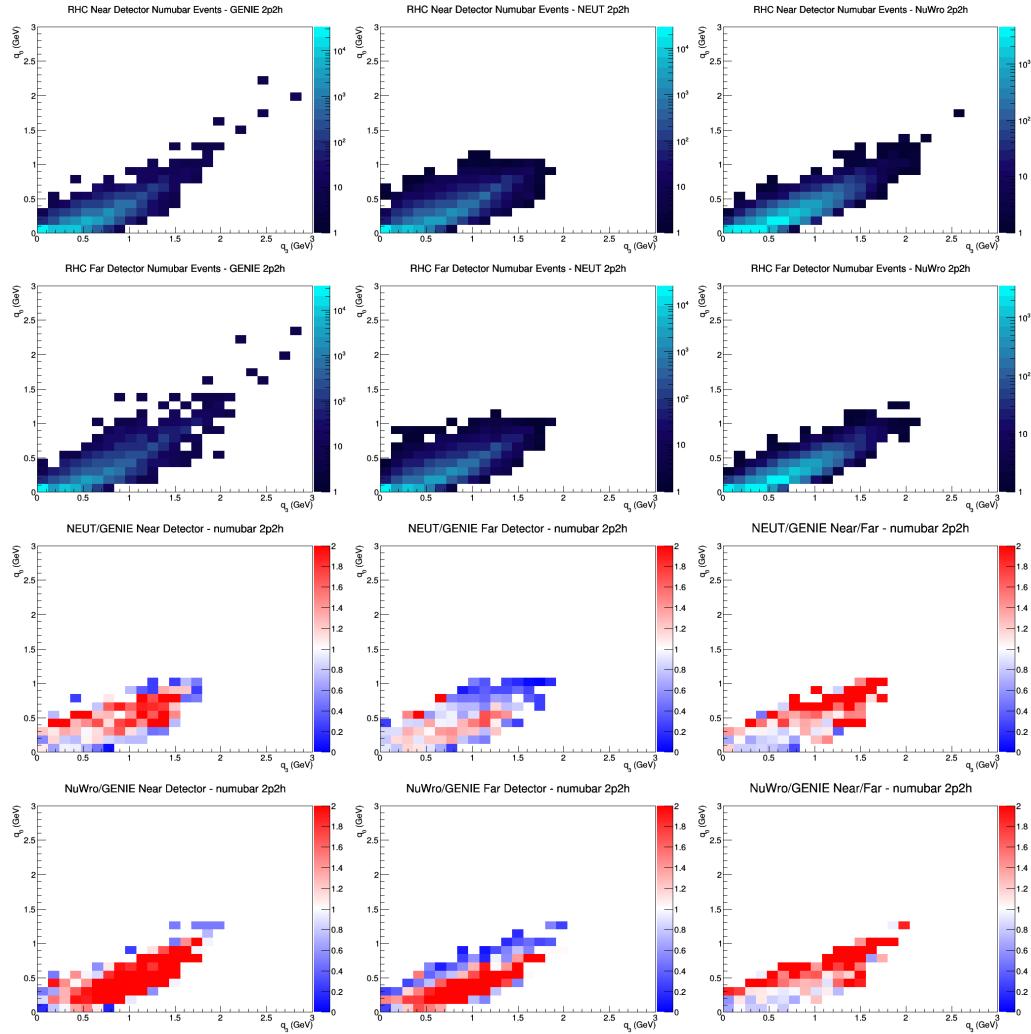
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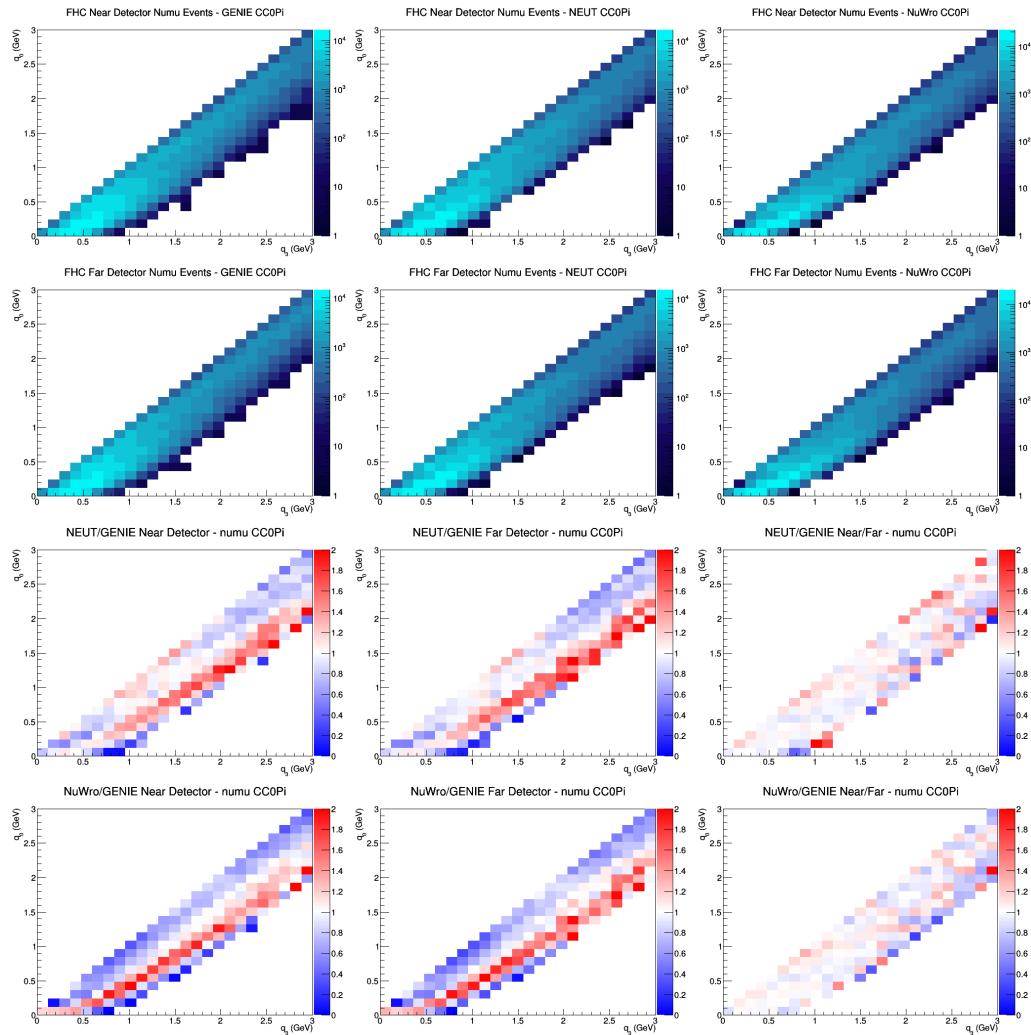
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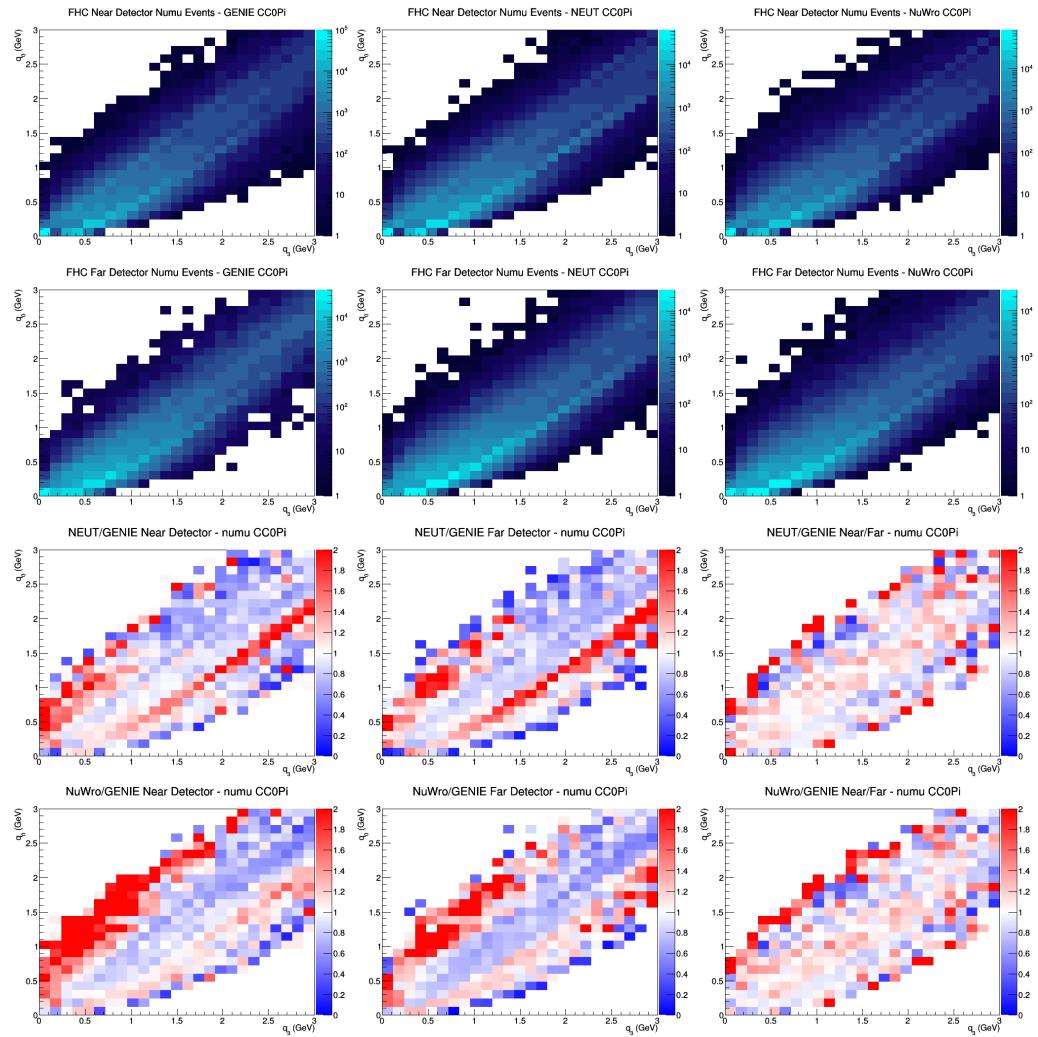
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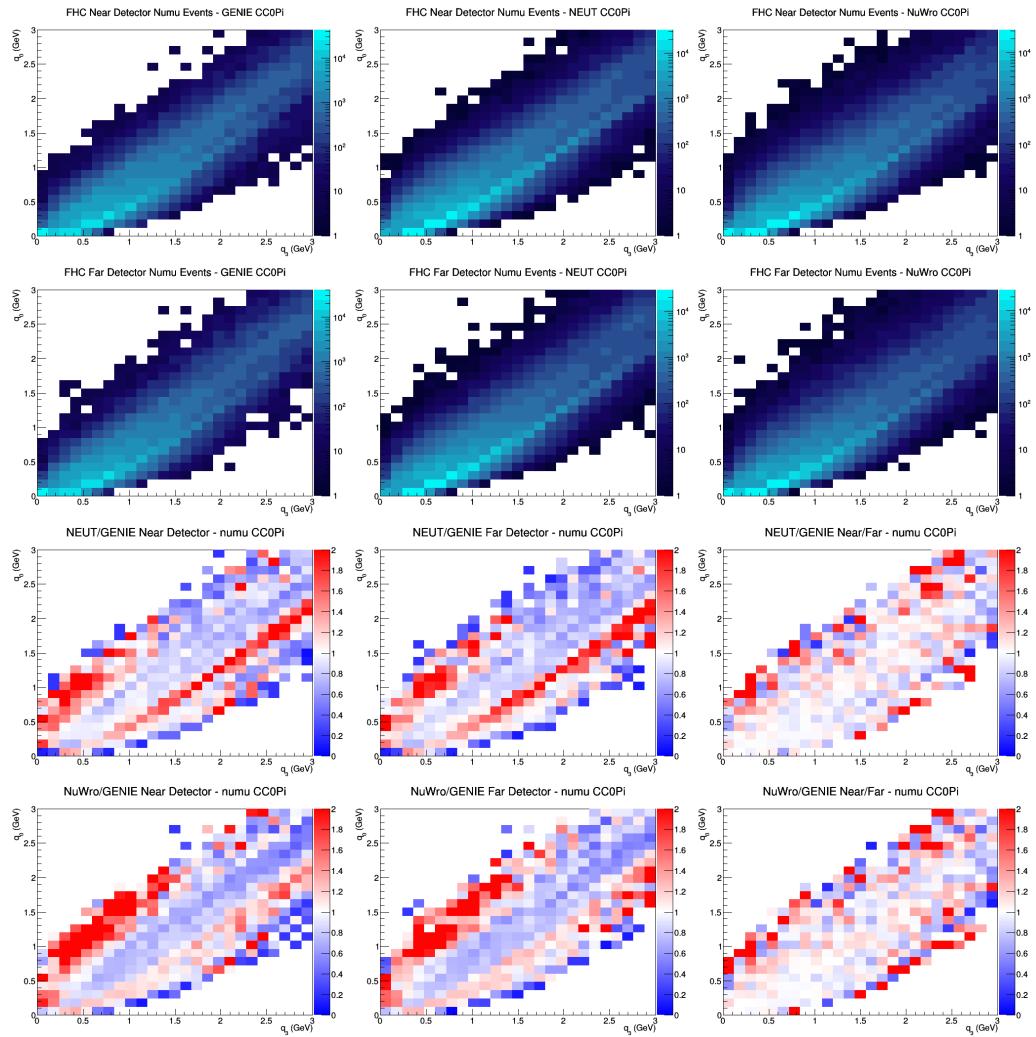
5.17 numu CC0Pi no efficiencies



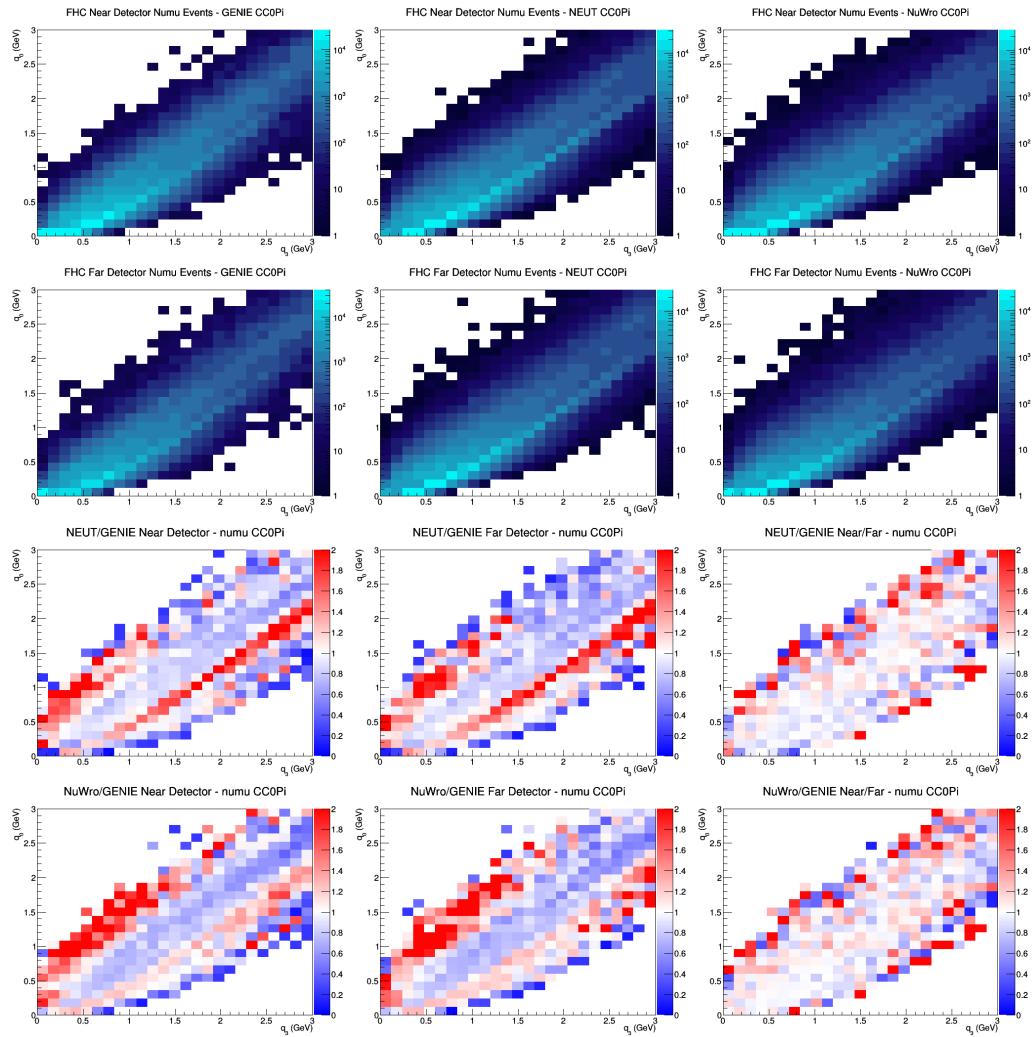
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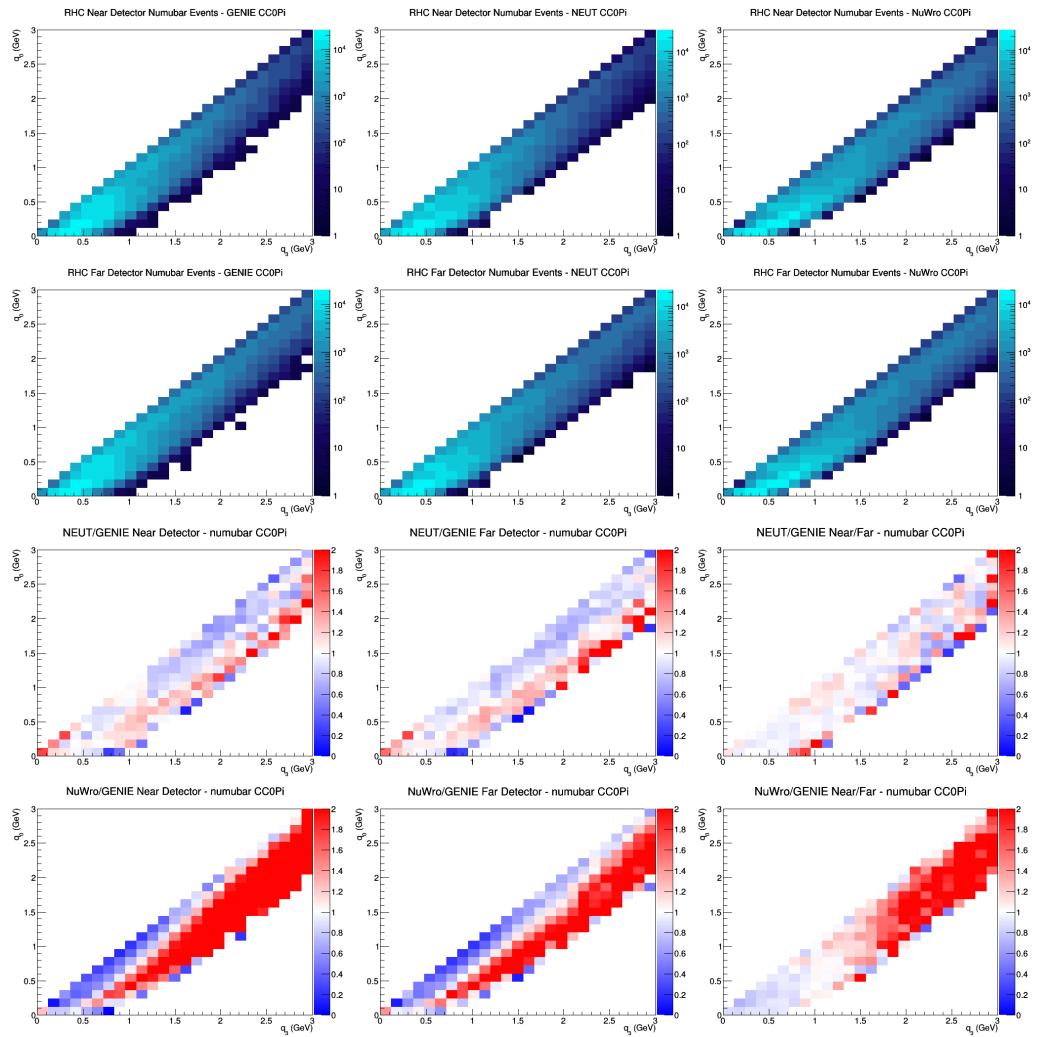
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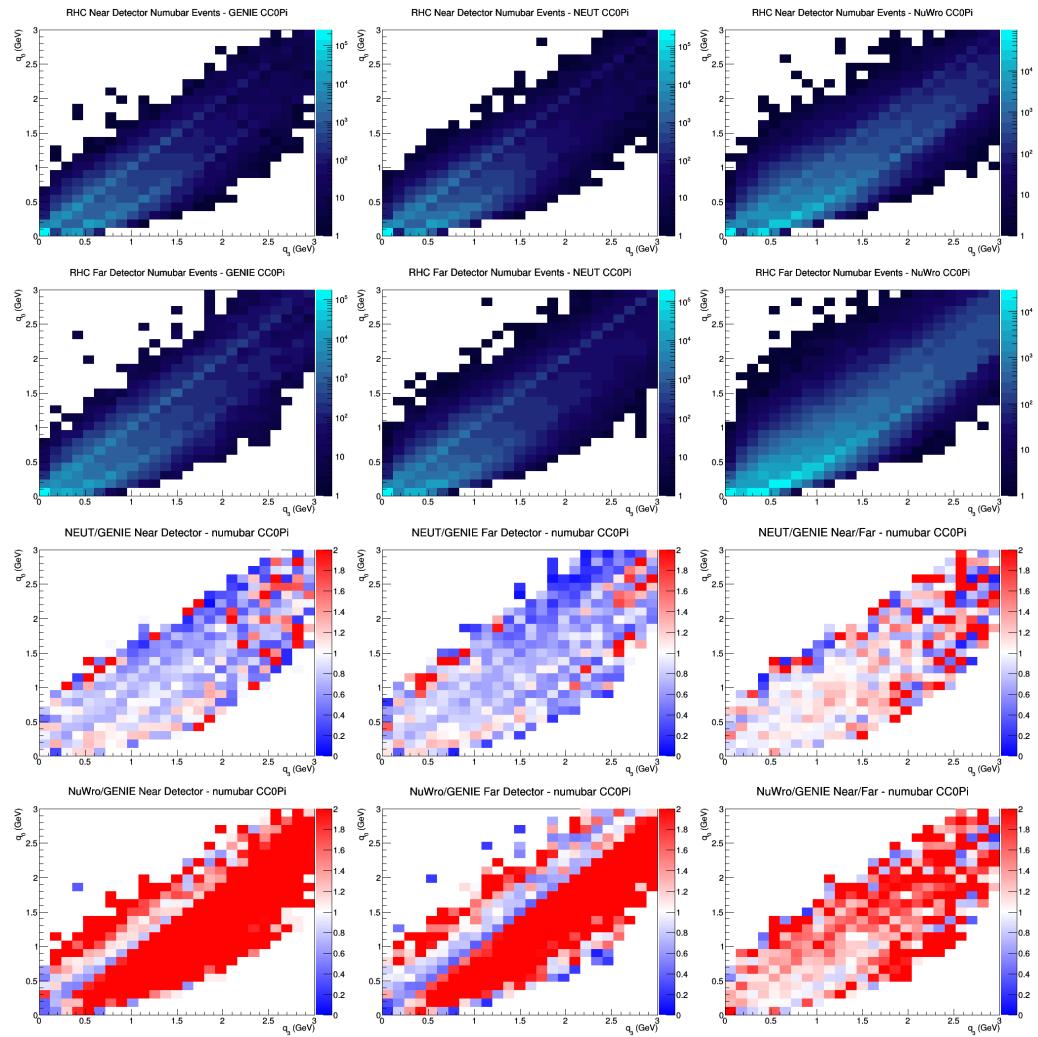
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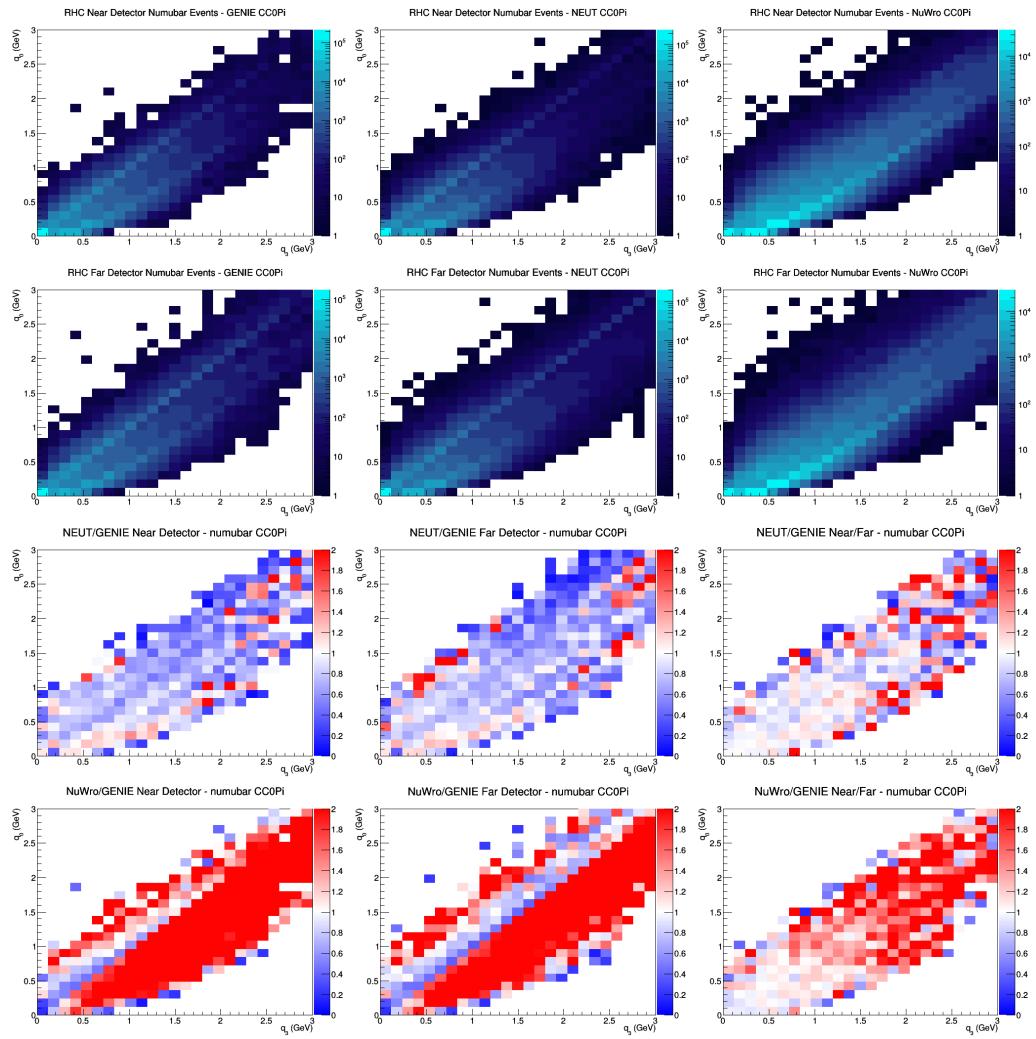
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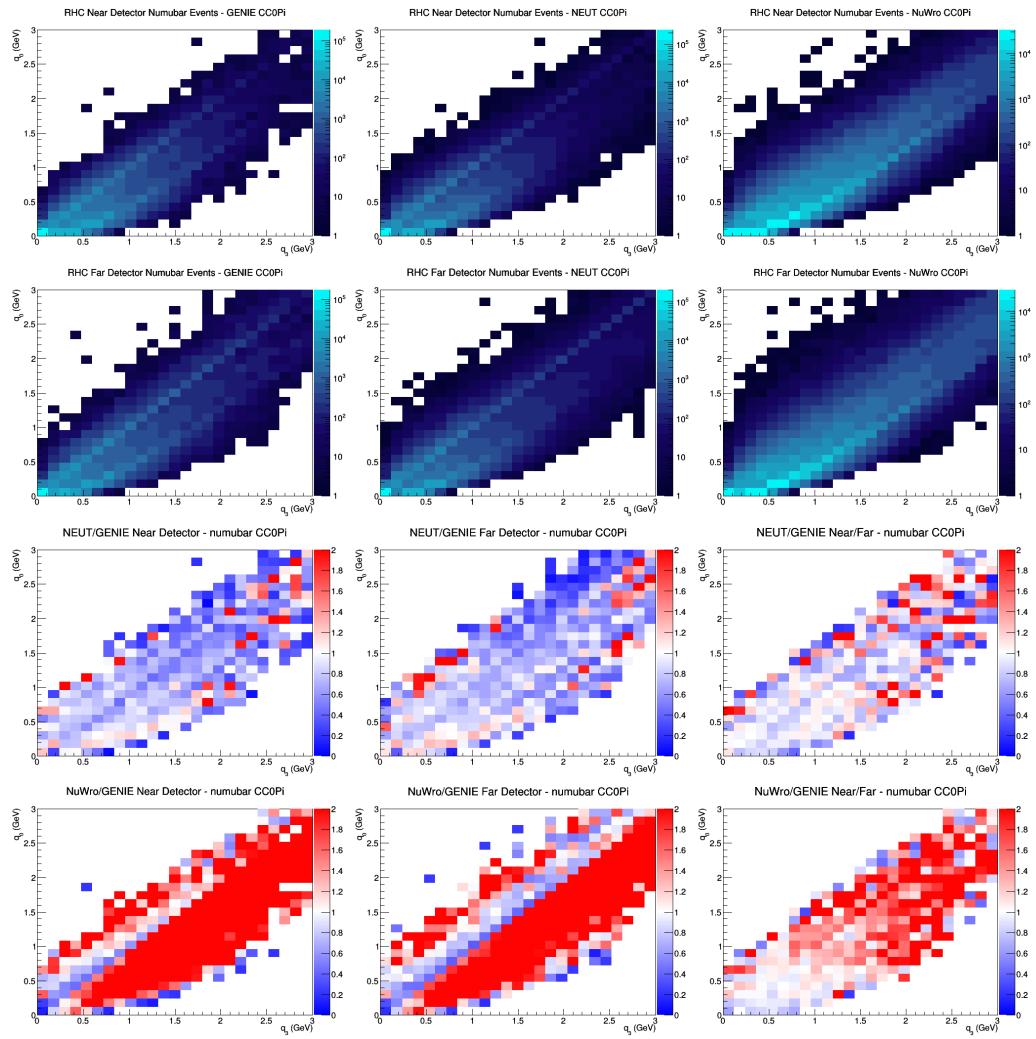
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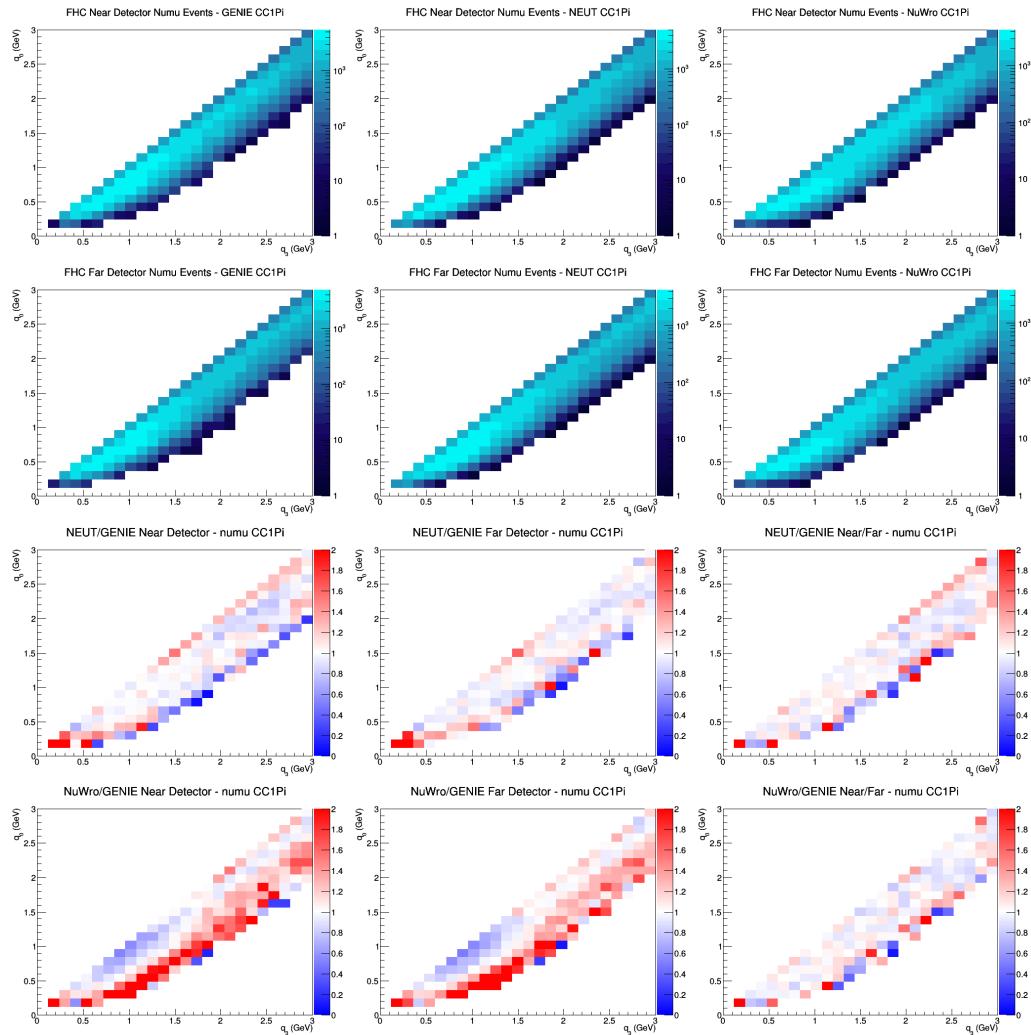
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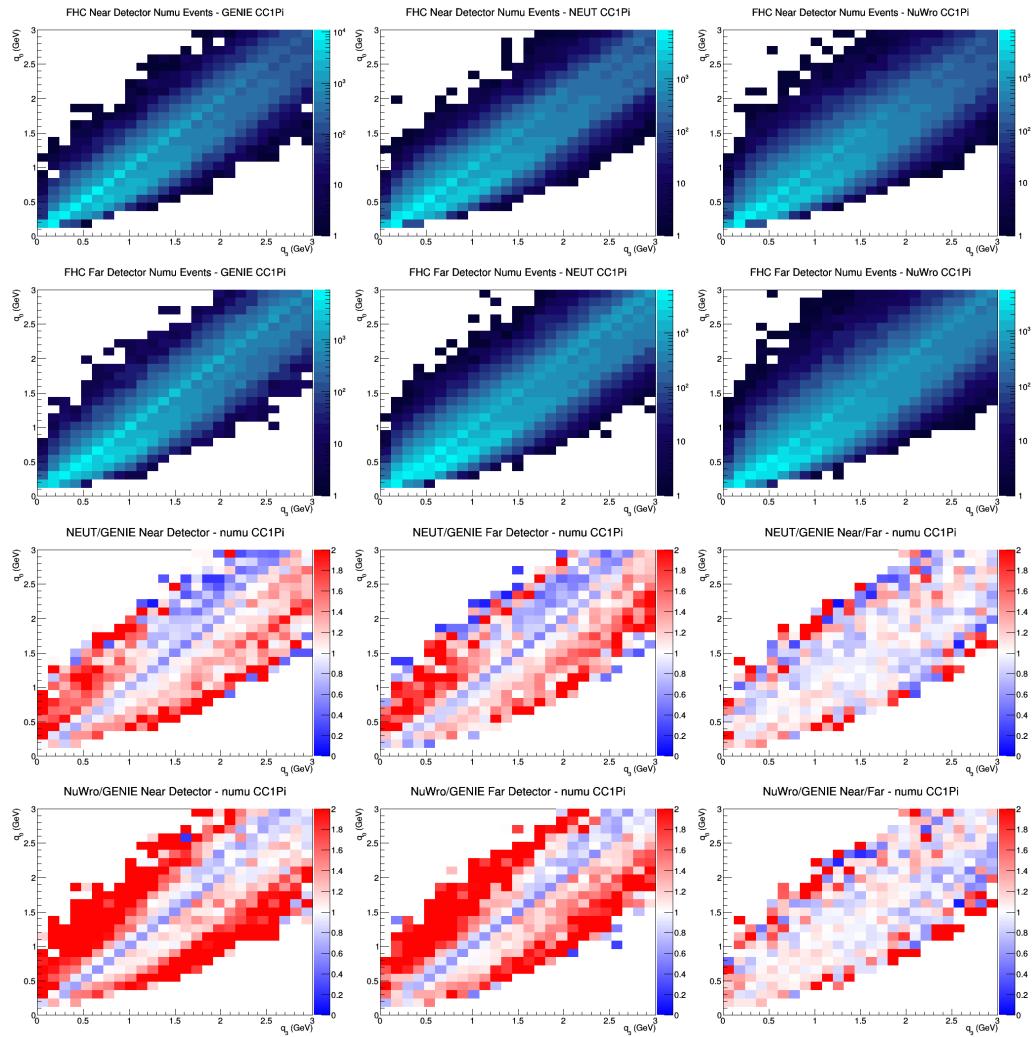
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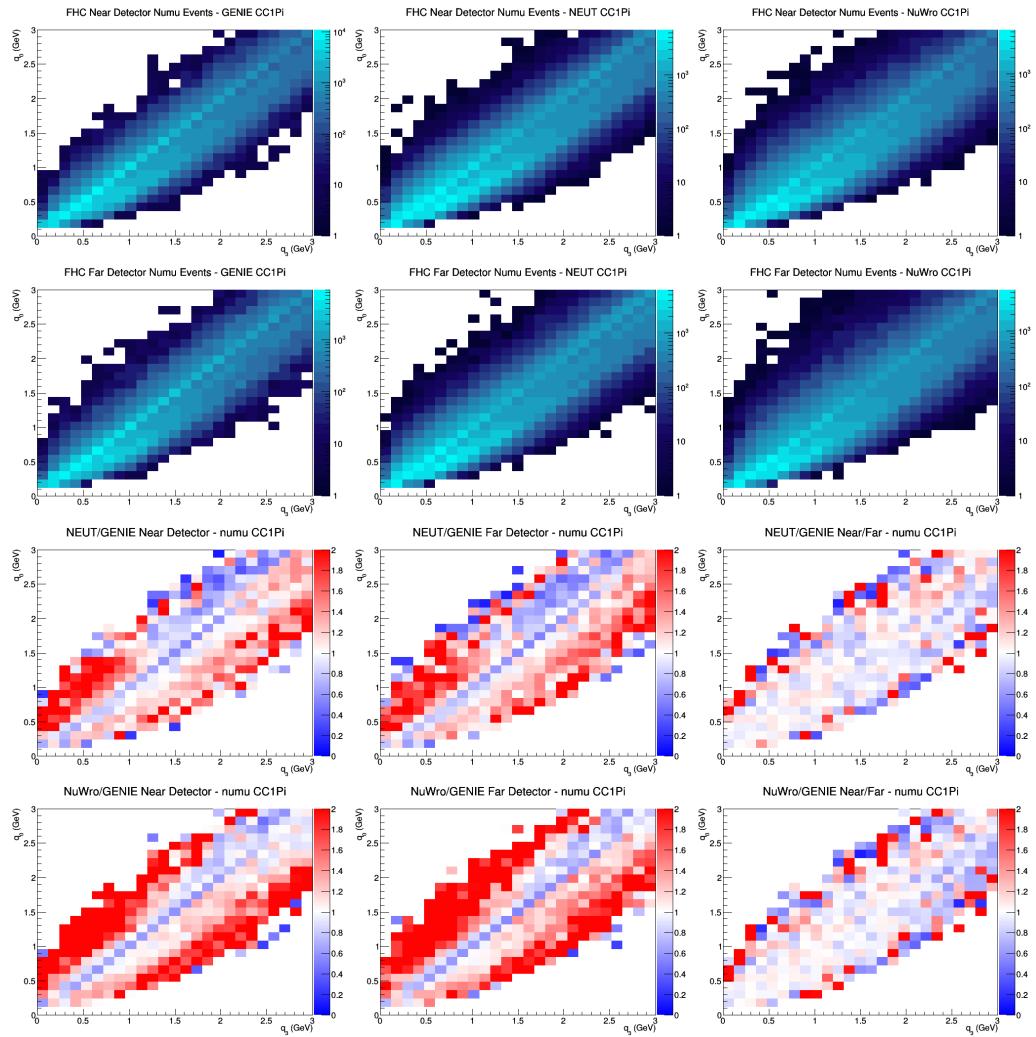
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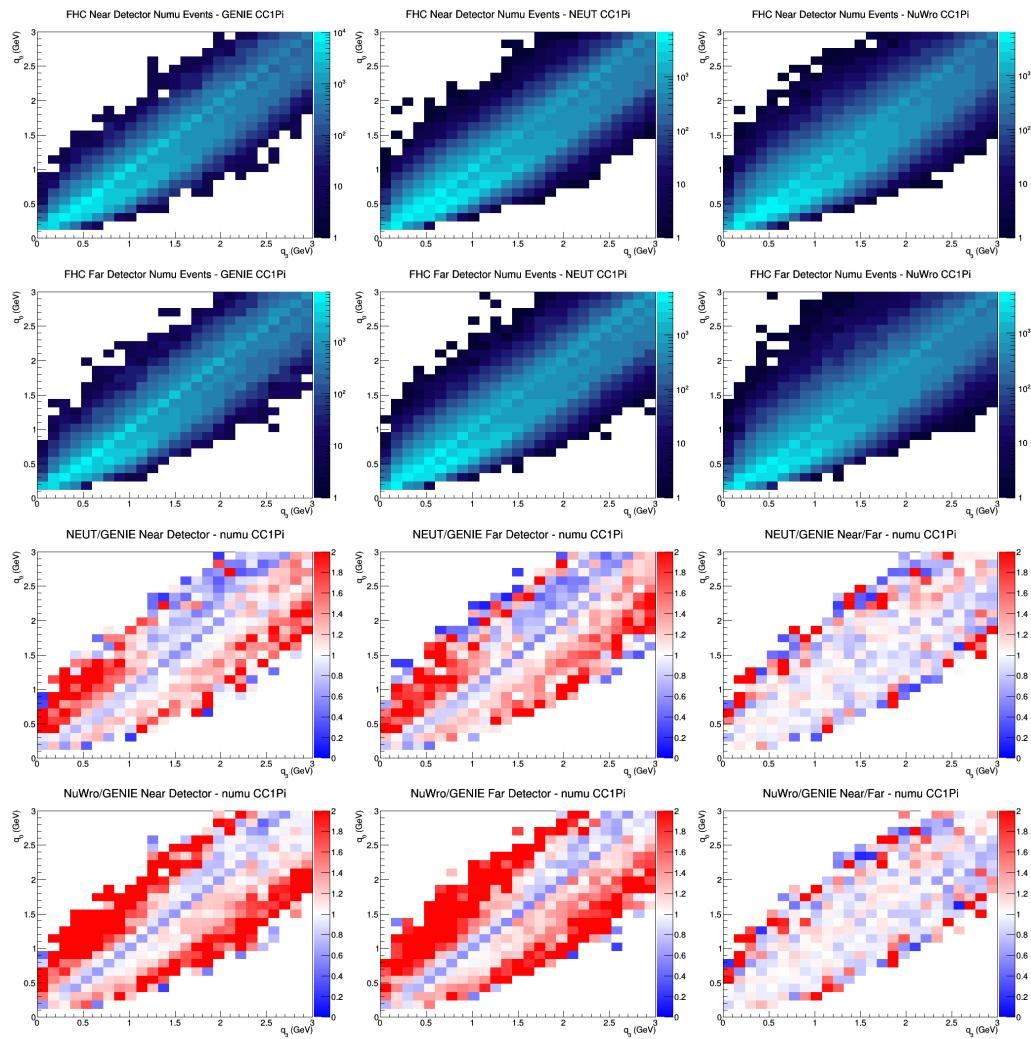
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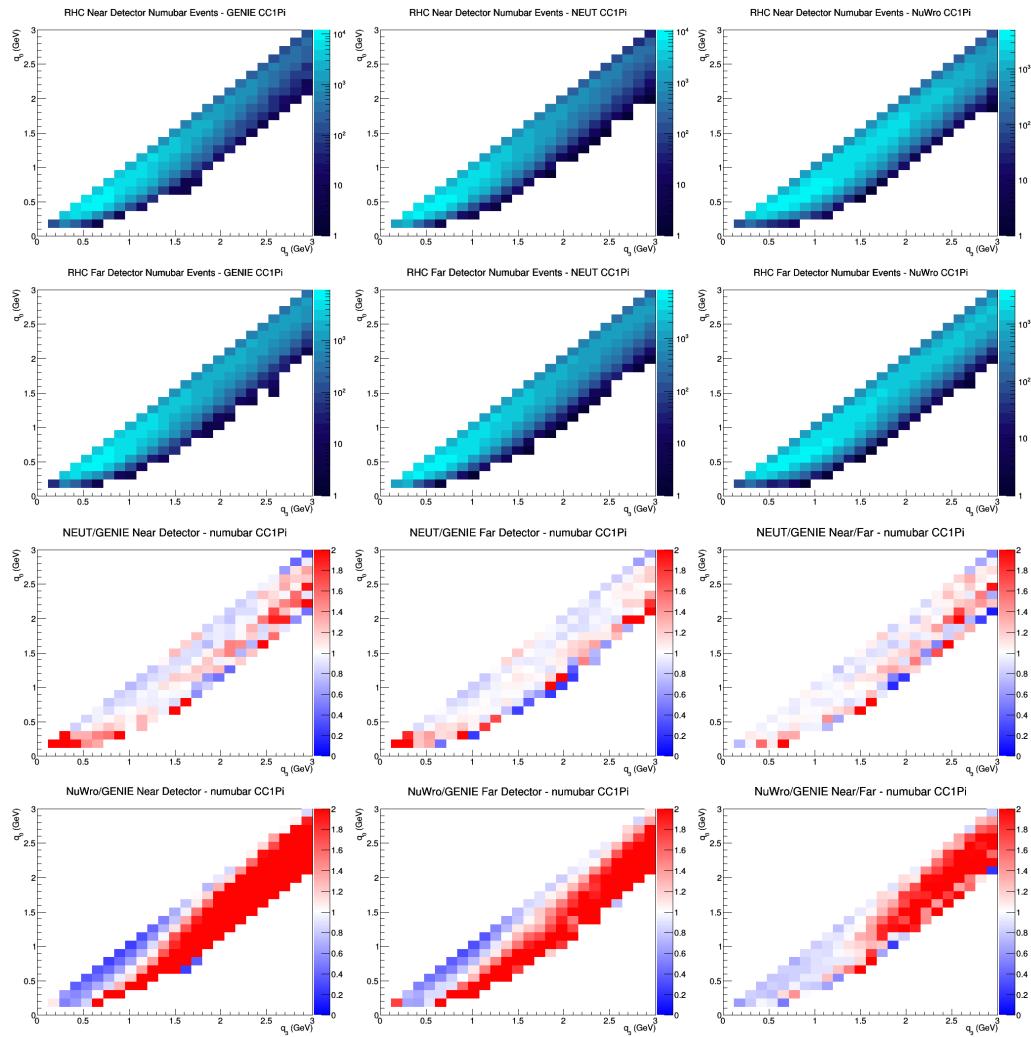
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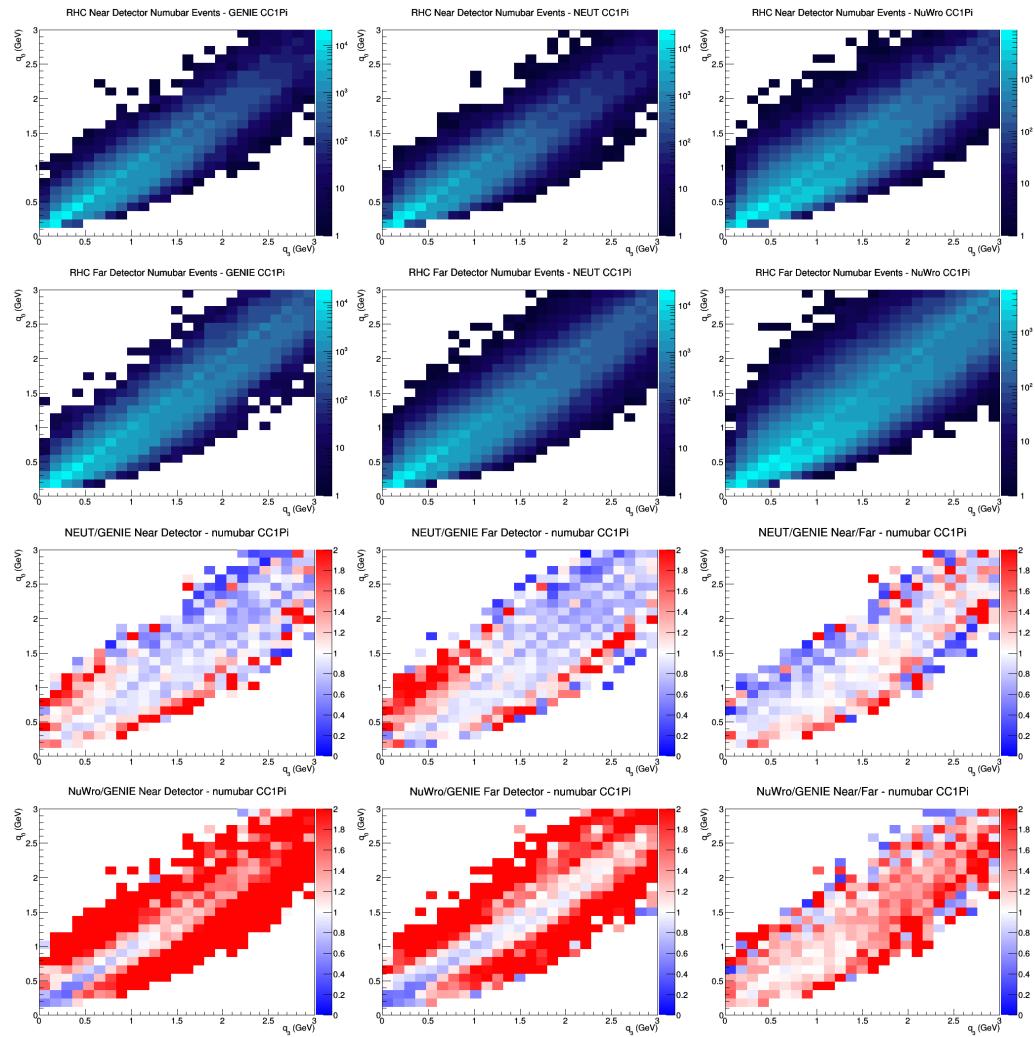
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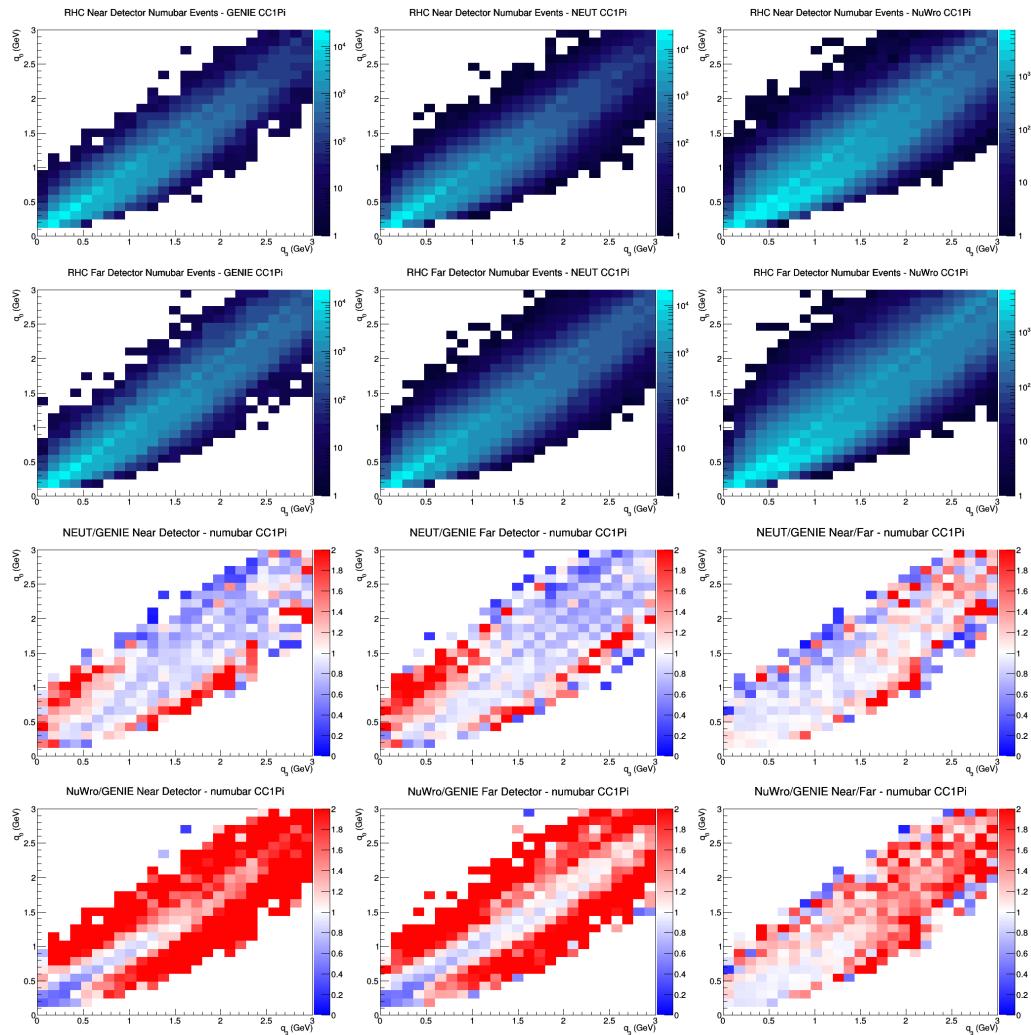
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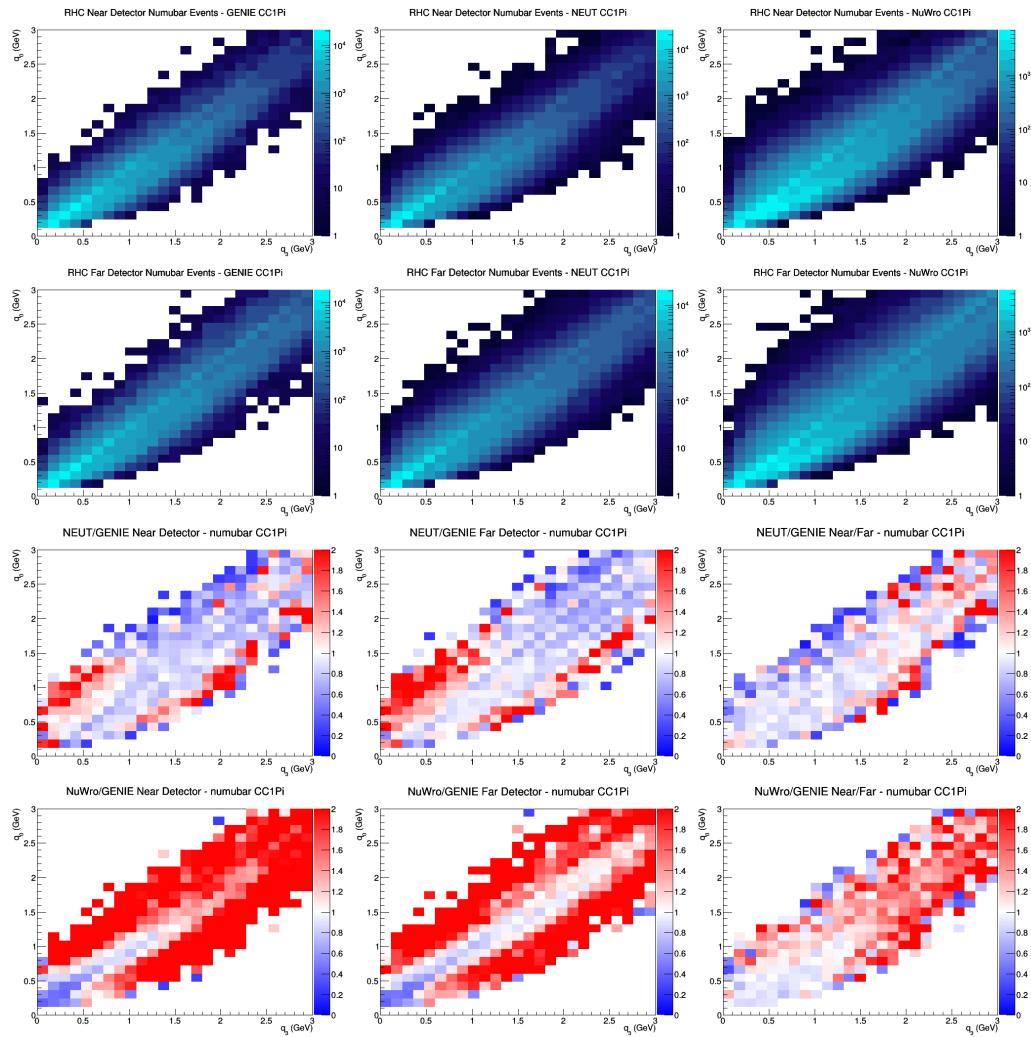
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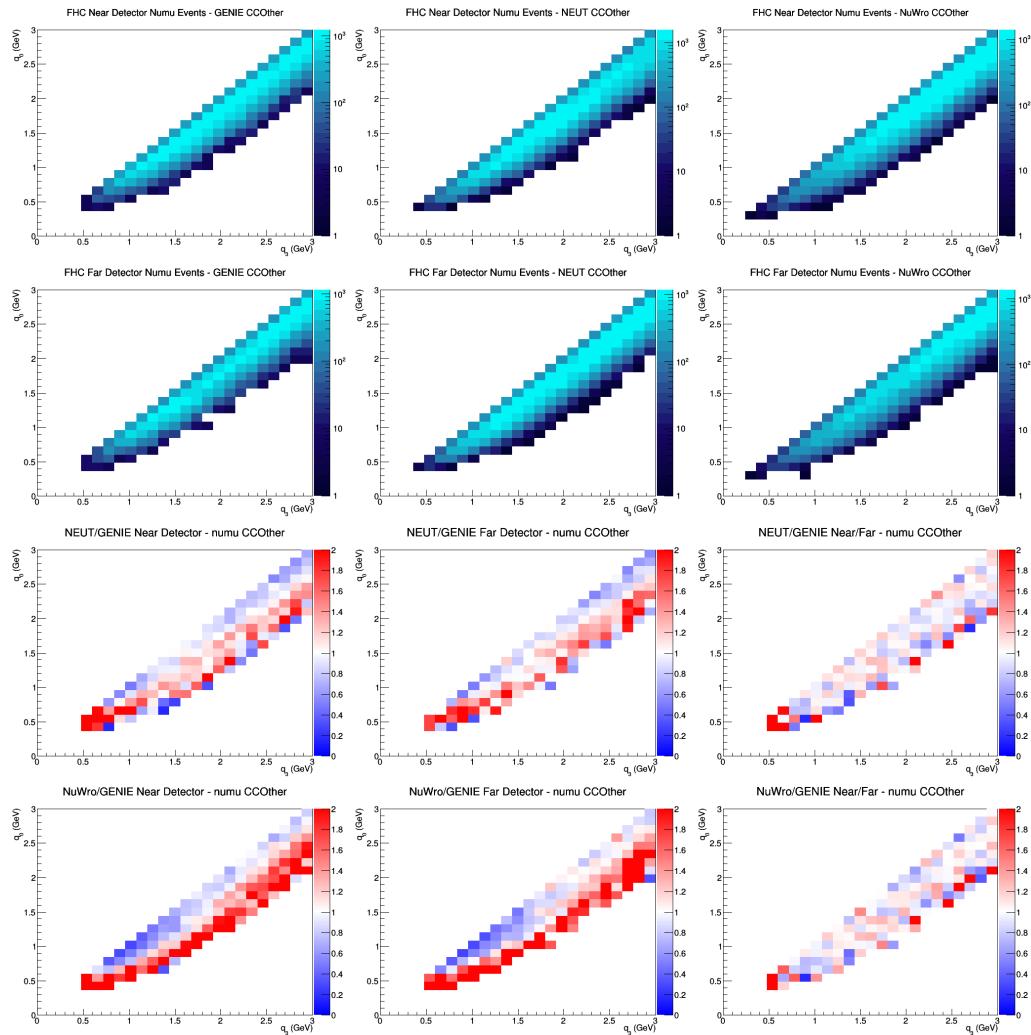
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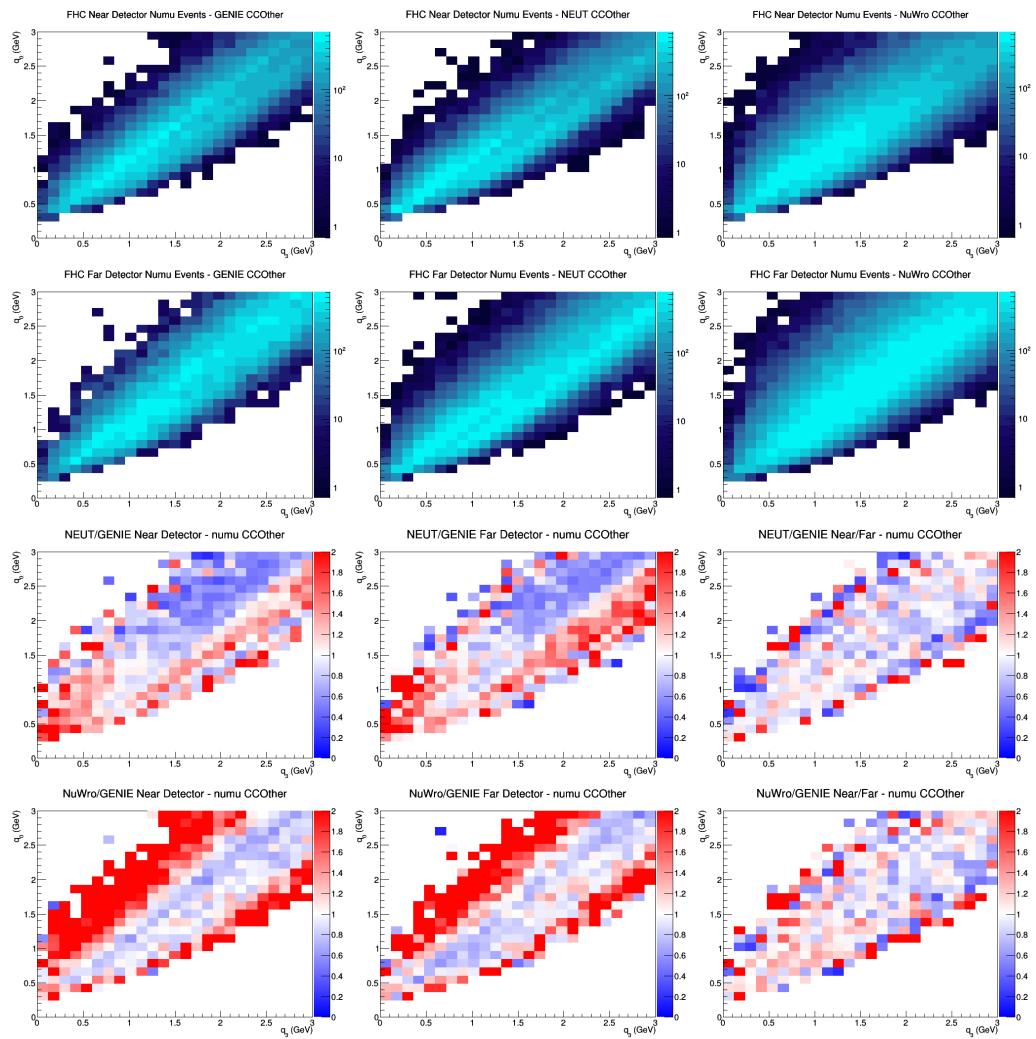
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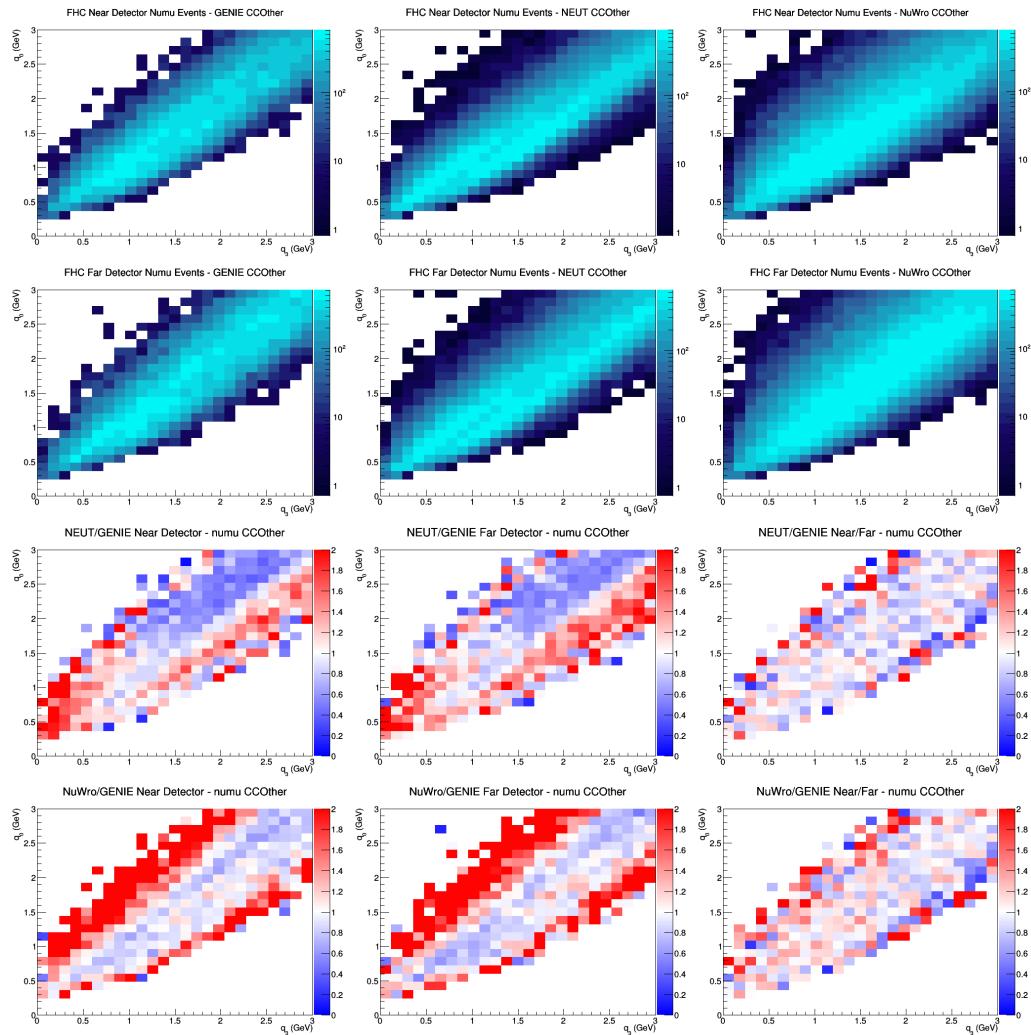
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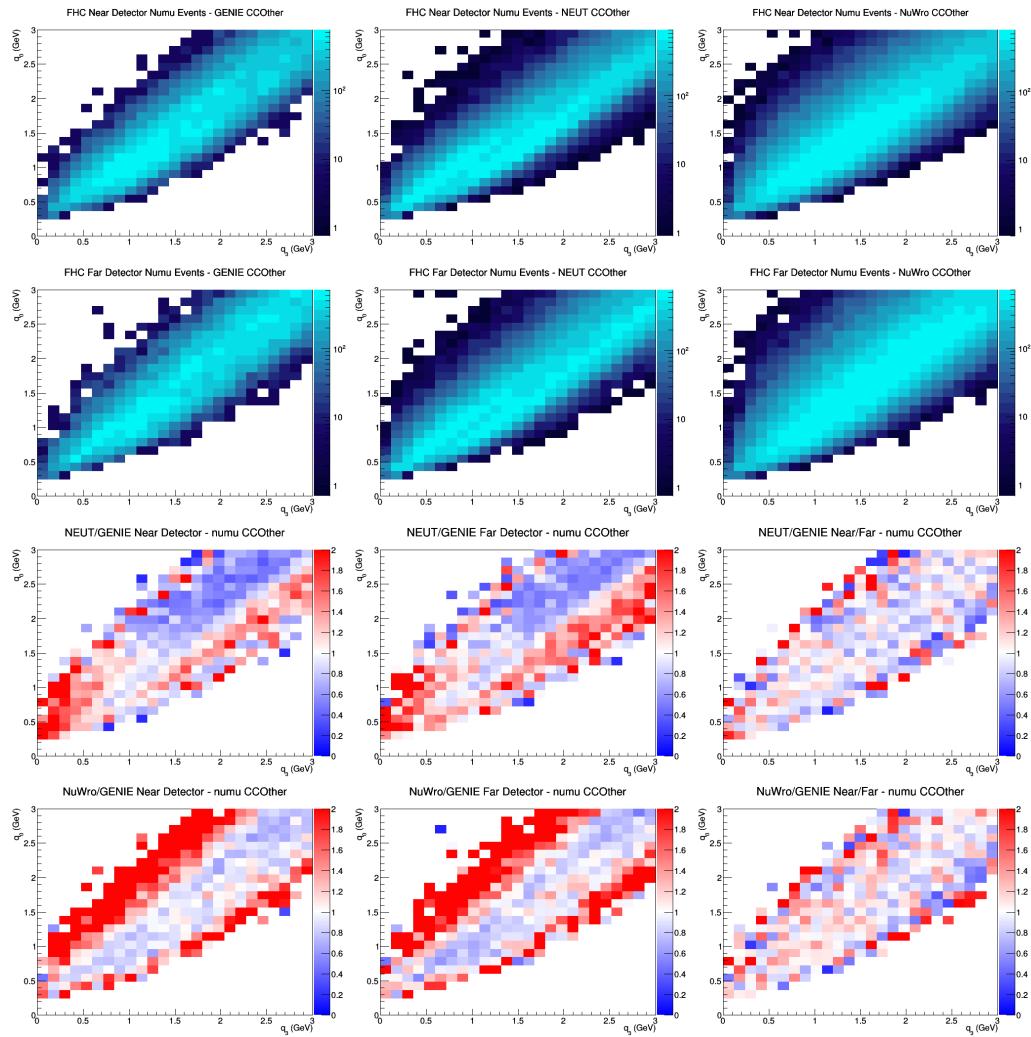
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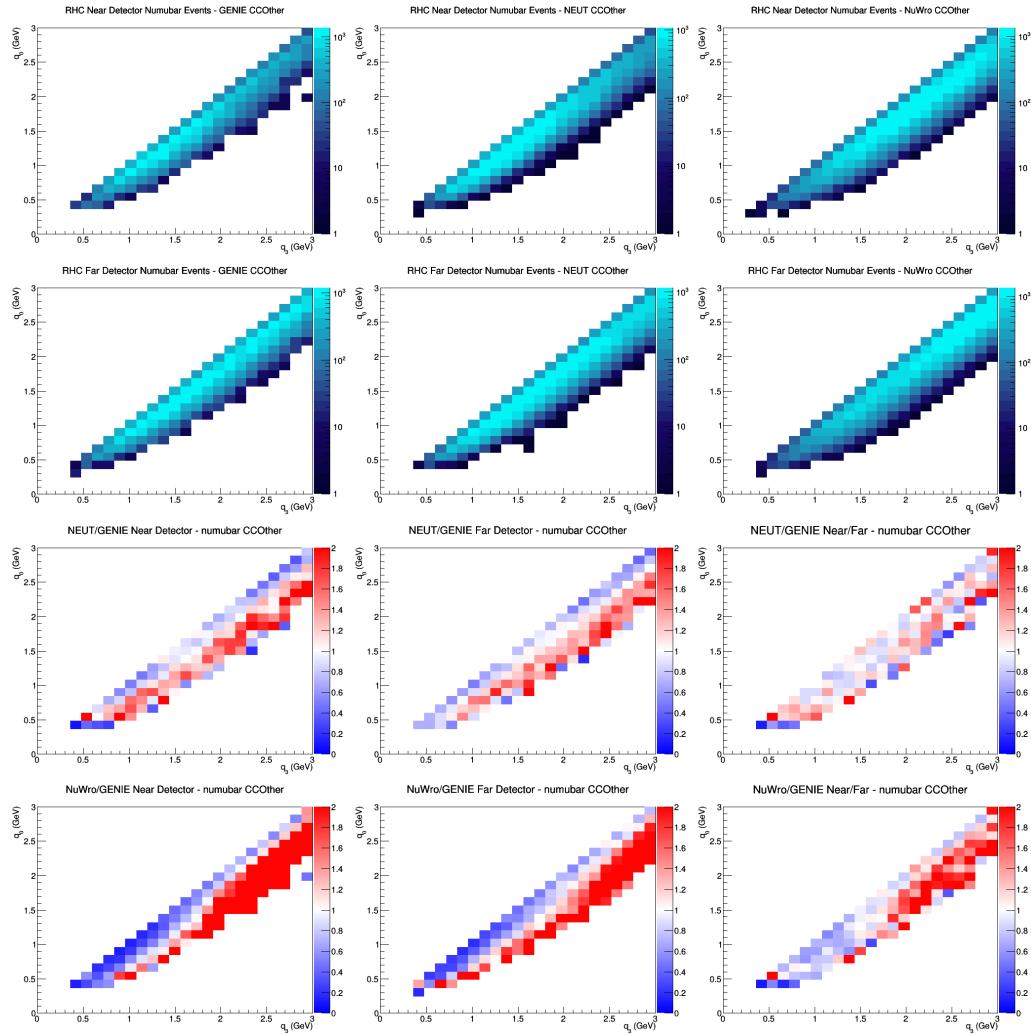
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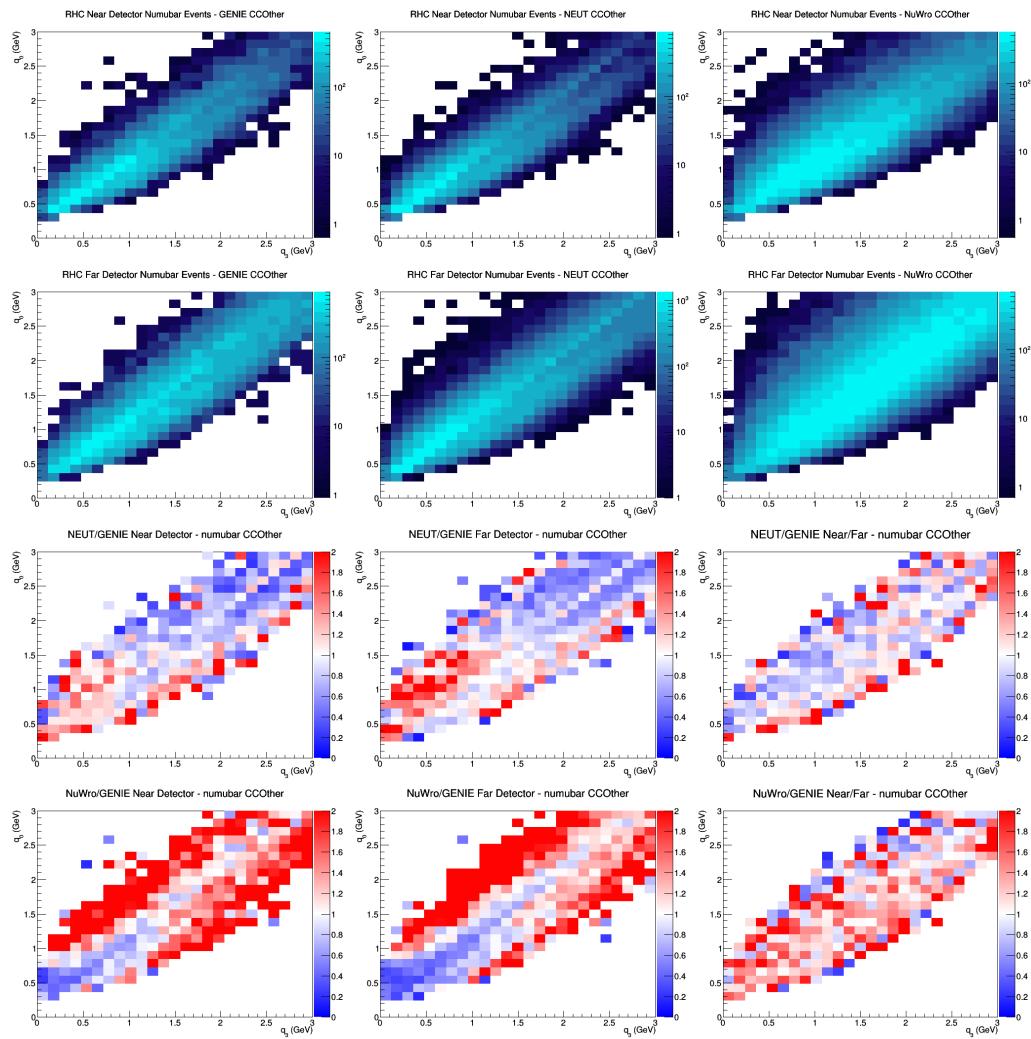
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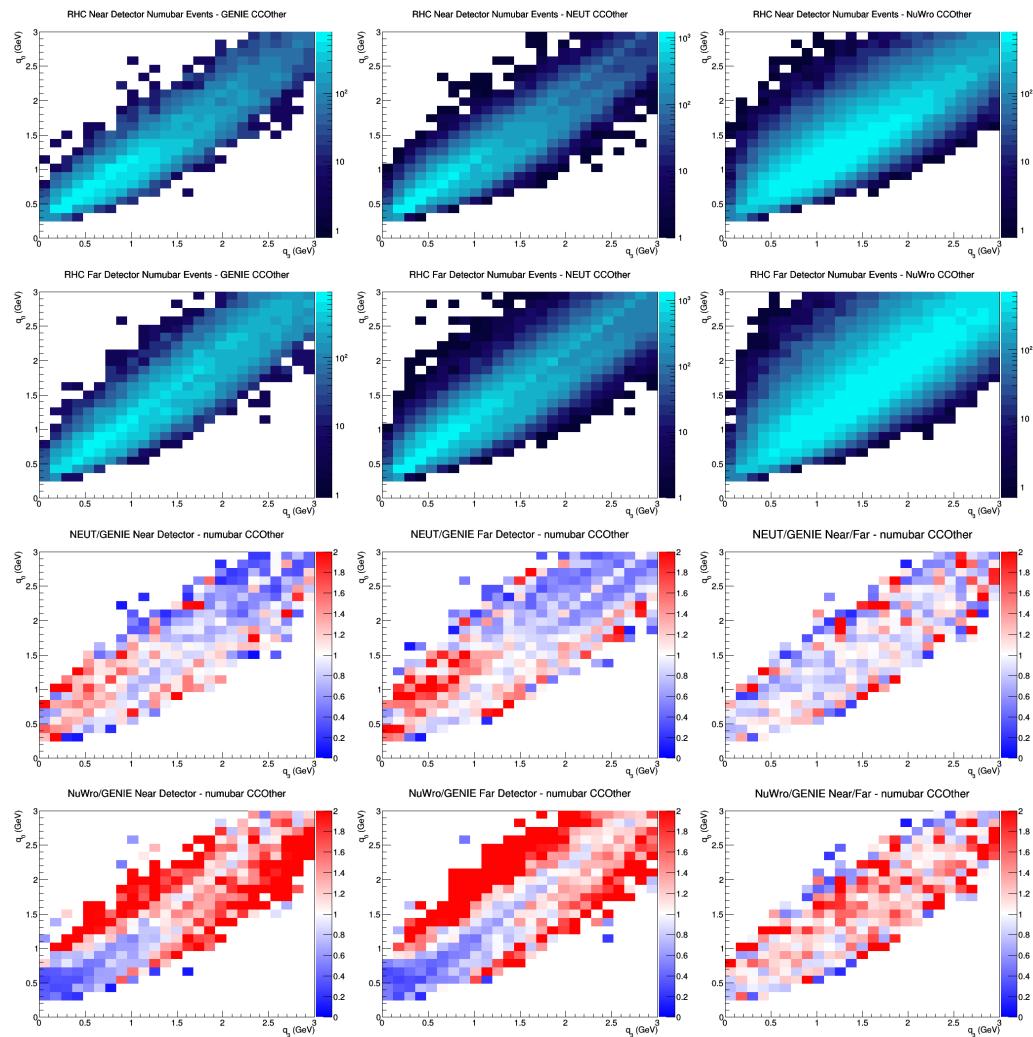
5.37 numubar CCOther no efficiencies



5.38 numubar CCOther FGT efficiencies



5.39 numubar CCOther LAr efficiencies



5.40 numubar CCOther GAr efficiencies

