Updates on 1 GeV beam π^+ -Ar inclusive cross section measurement

Yinrui Liu Aug. 25, 2022

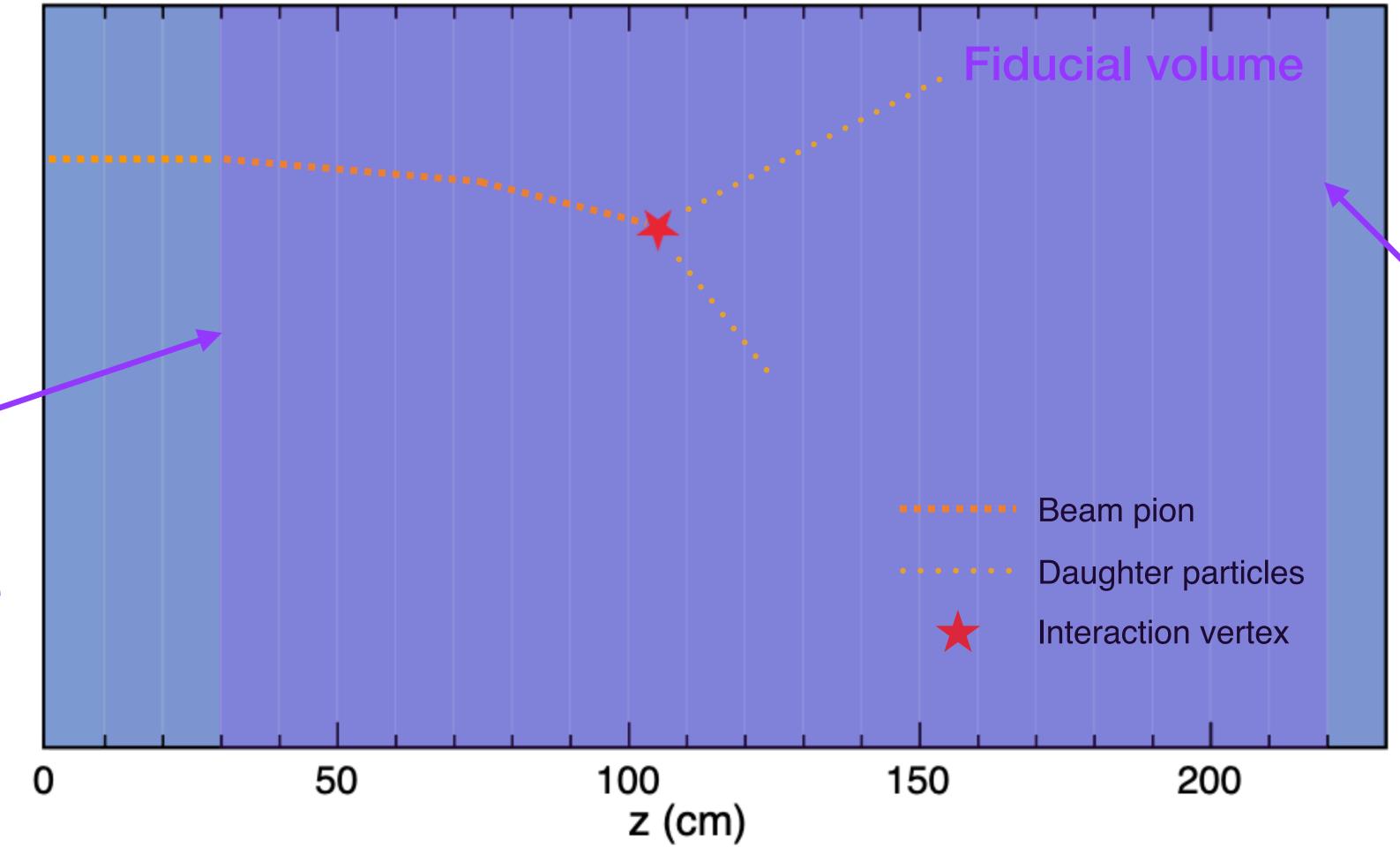






Fiducial volume

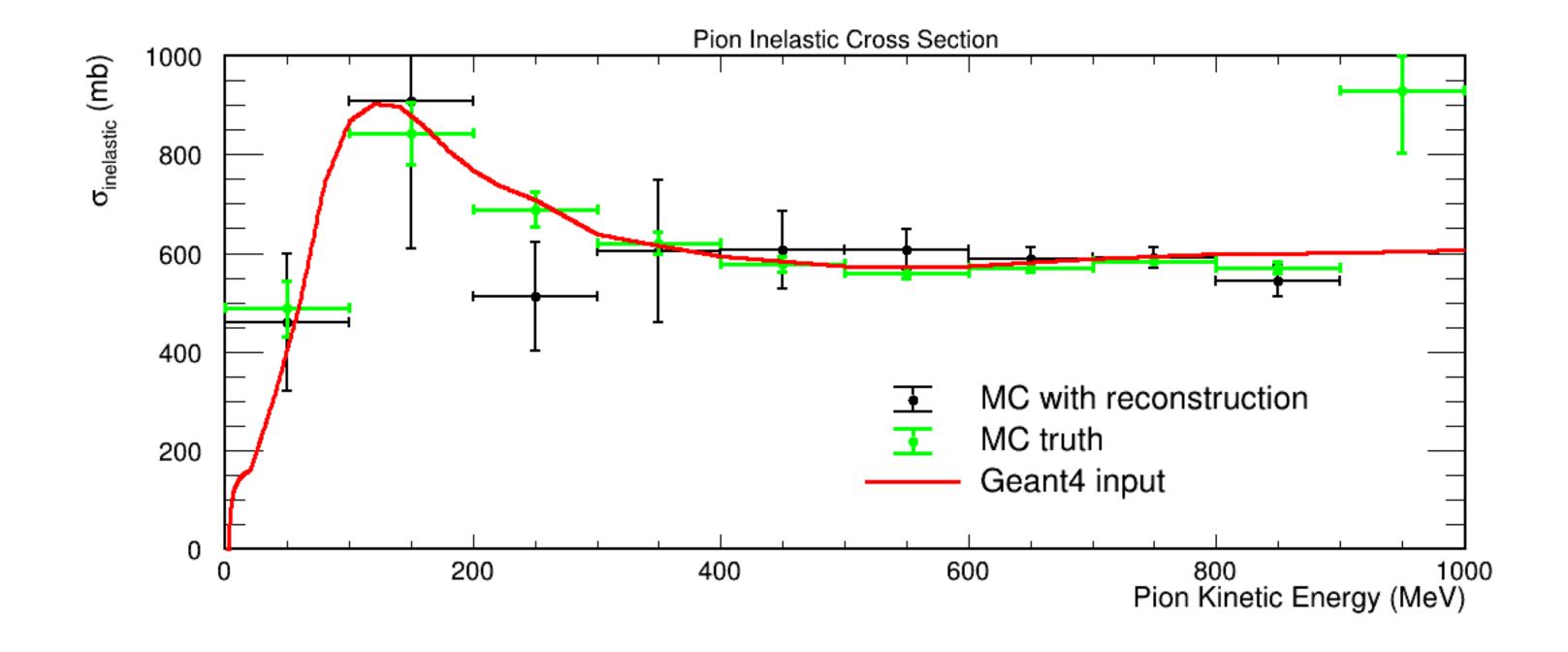
> 30 cm: For data/MC efficiency difference in short beam track identification



< 220 cm: For distortion at the boundary of the two TPCs due to the electron diverter



MC XS: Previous

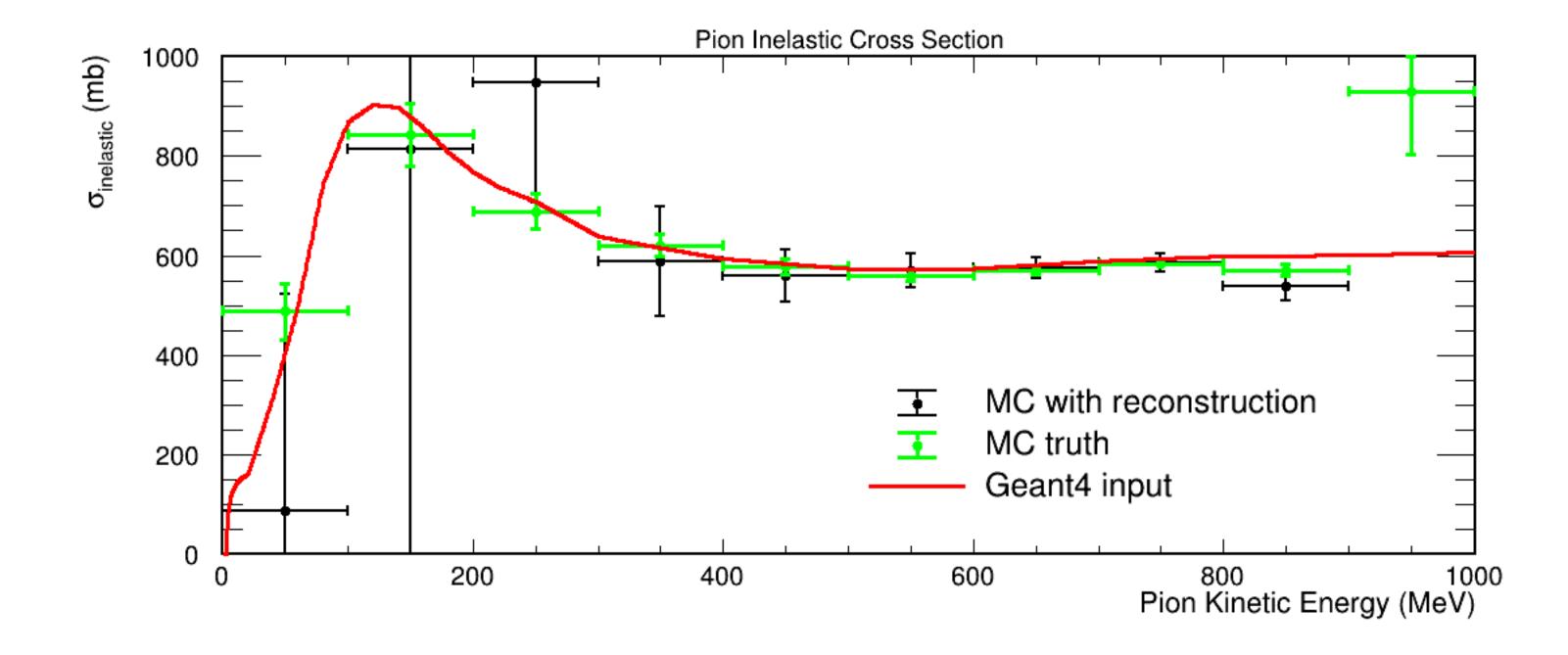


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Here we measure low energy XS just to monitor if there are unexpected behaviors.



MC XS: Remove the APA3 cut

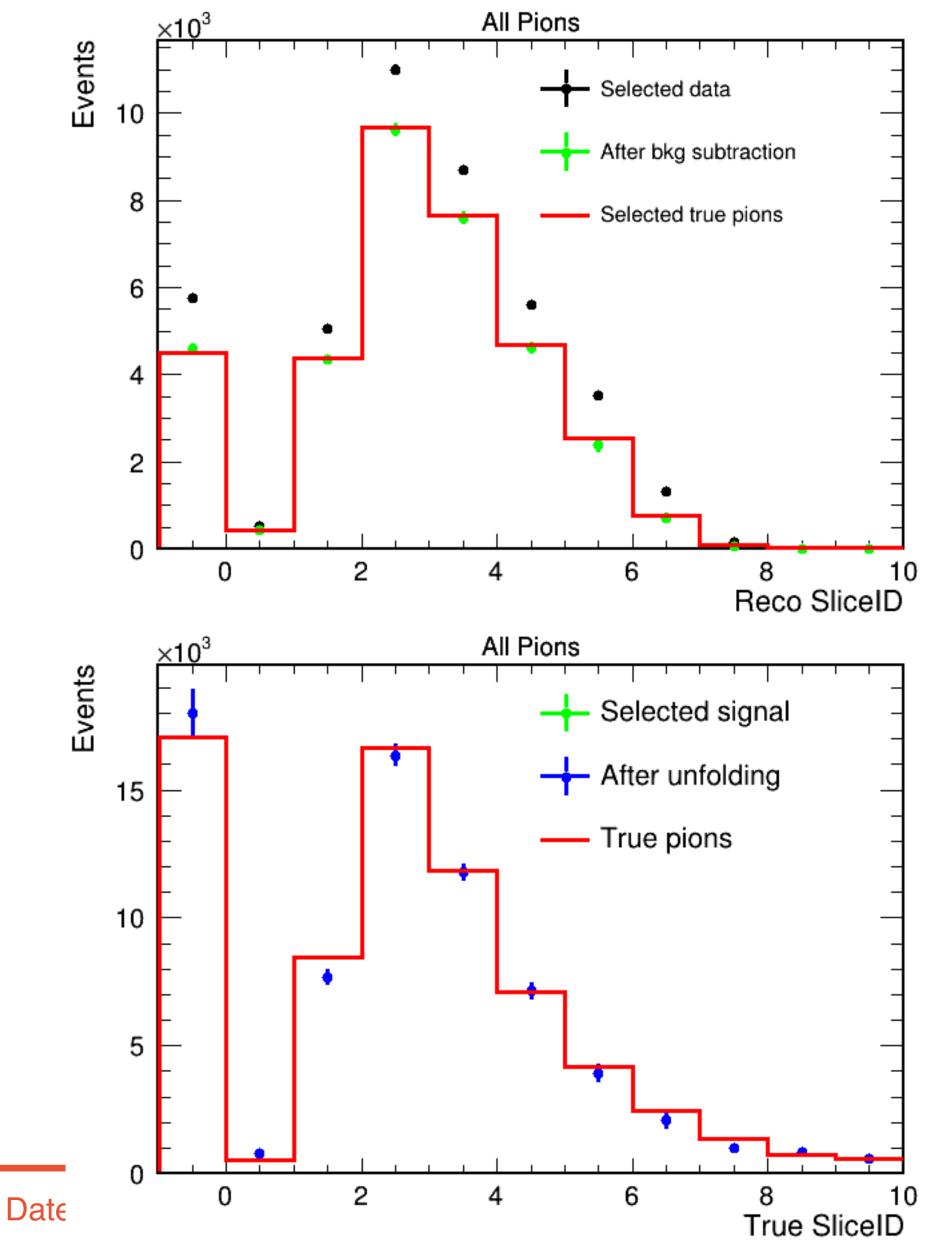


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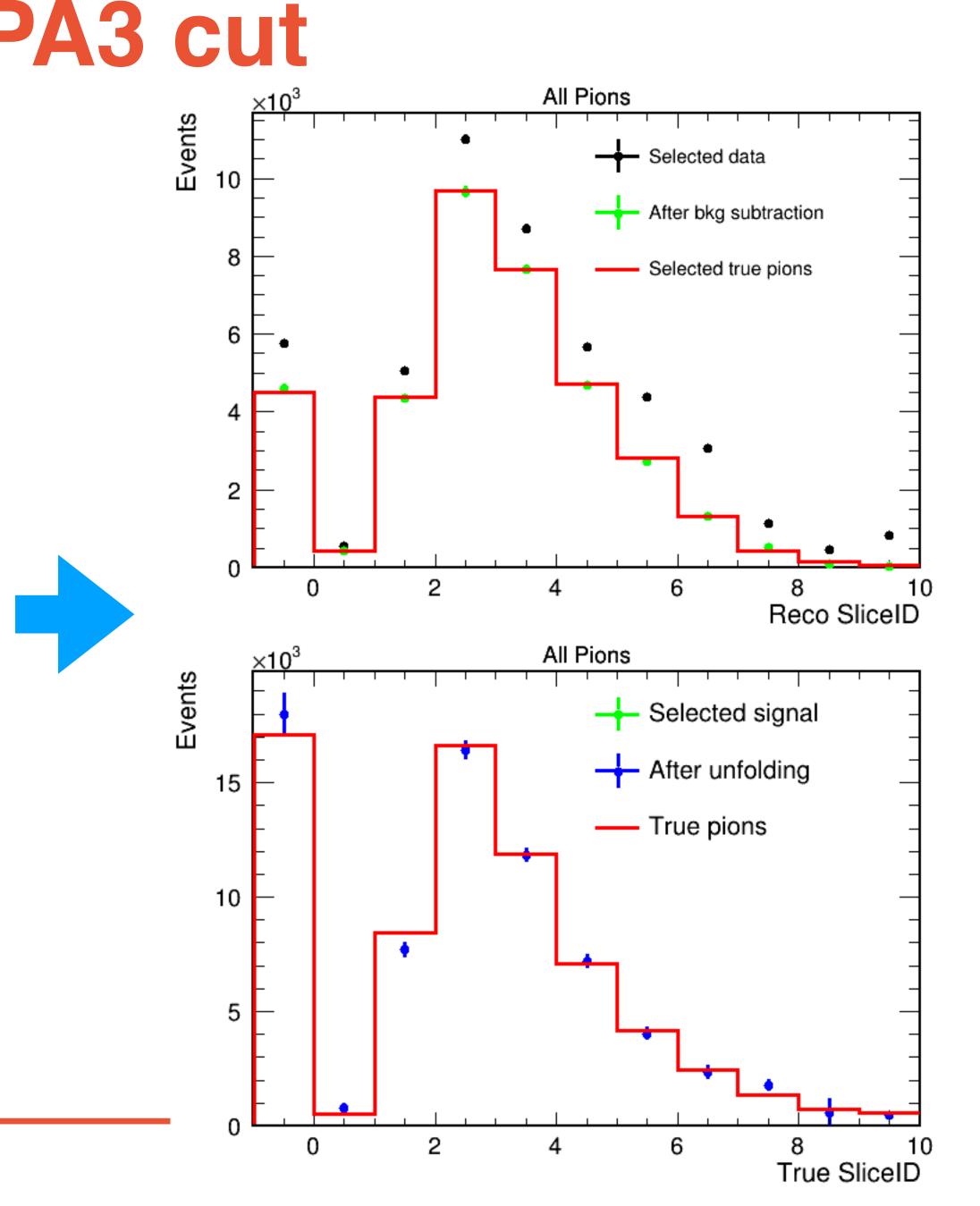




MC XS: Remove the APA3 cut

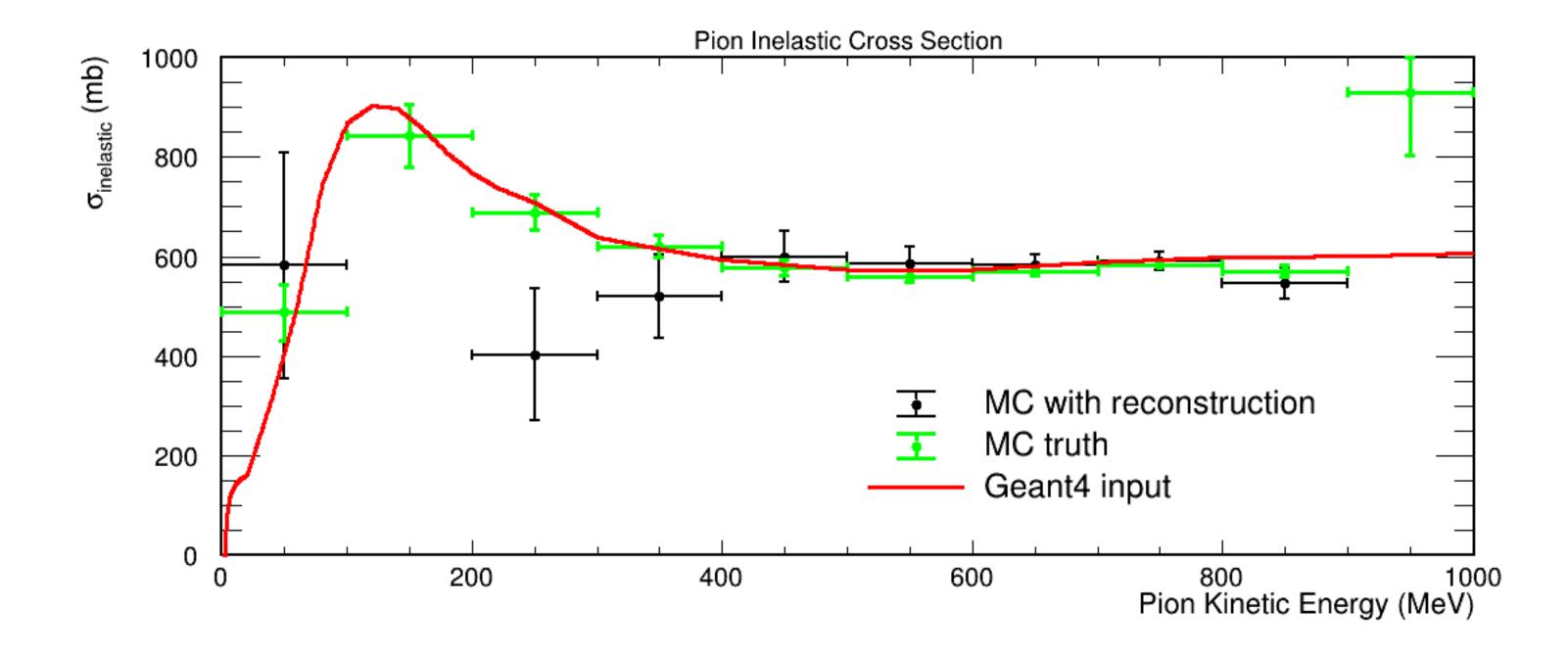


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MC XS: Fiducial volume < 220 cm

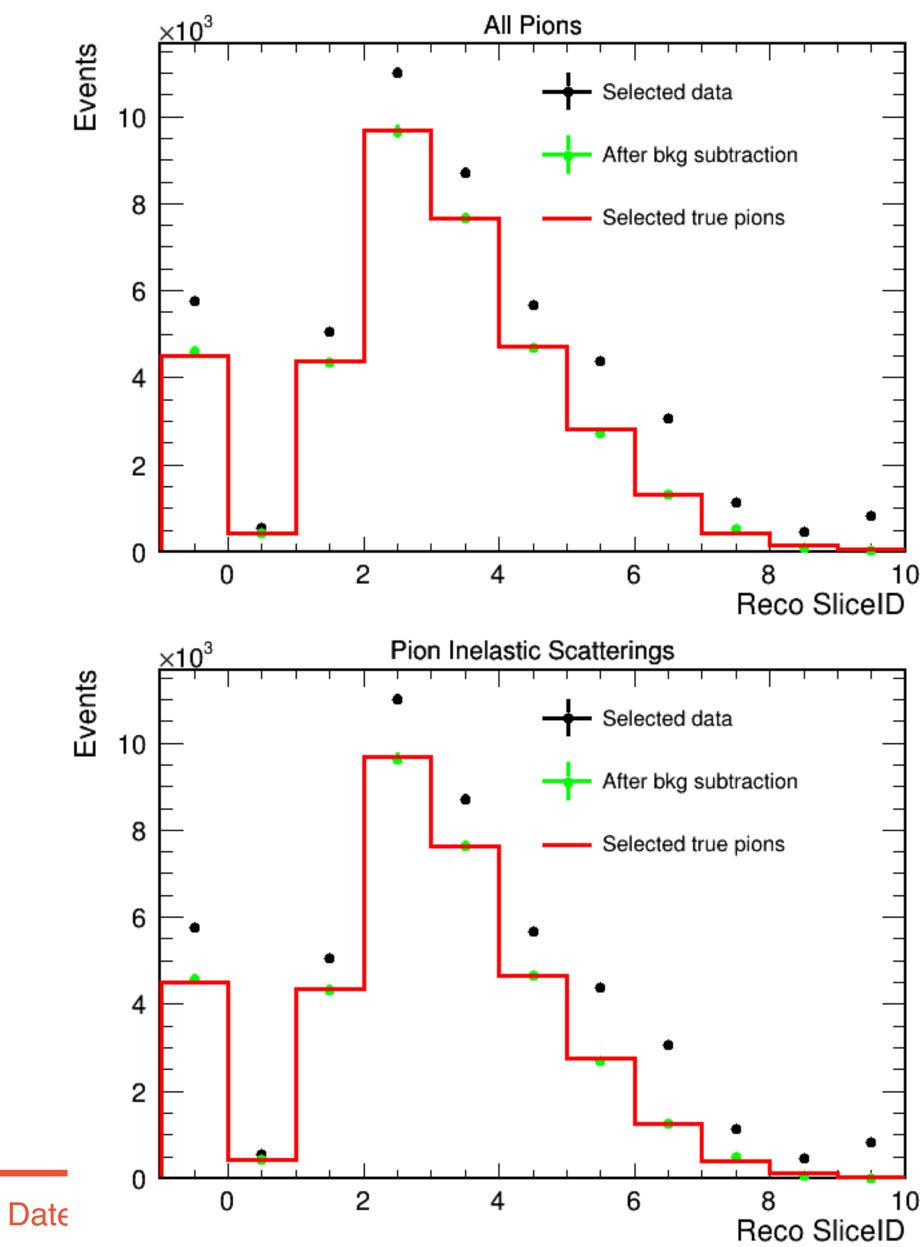


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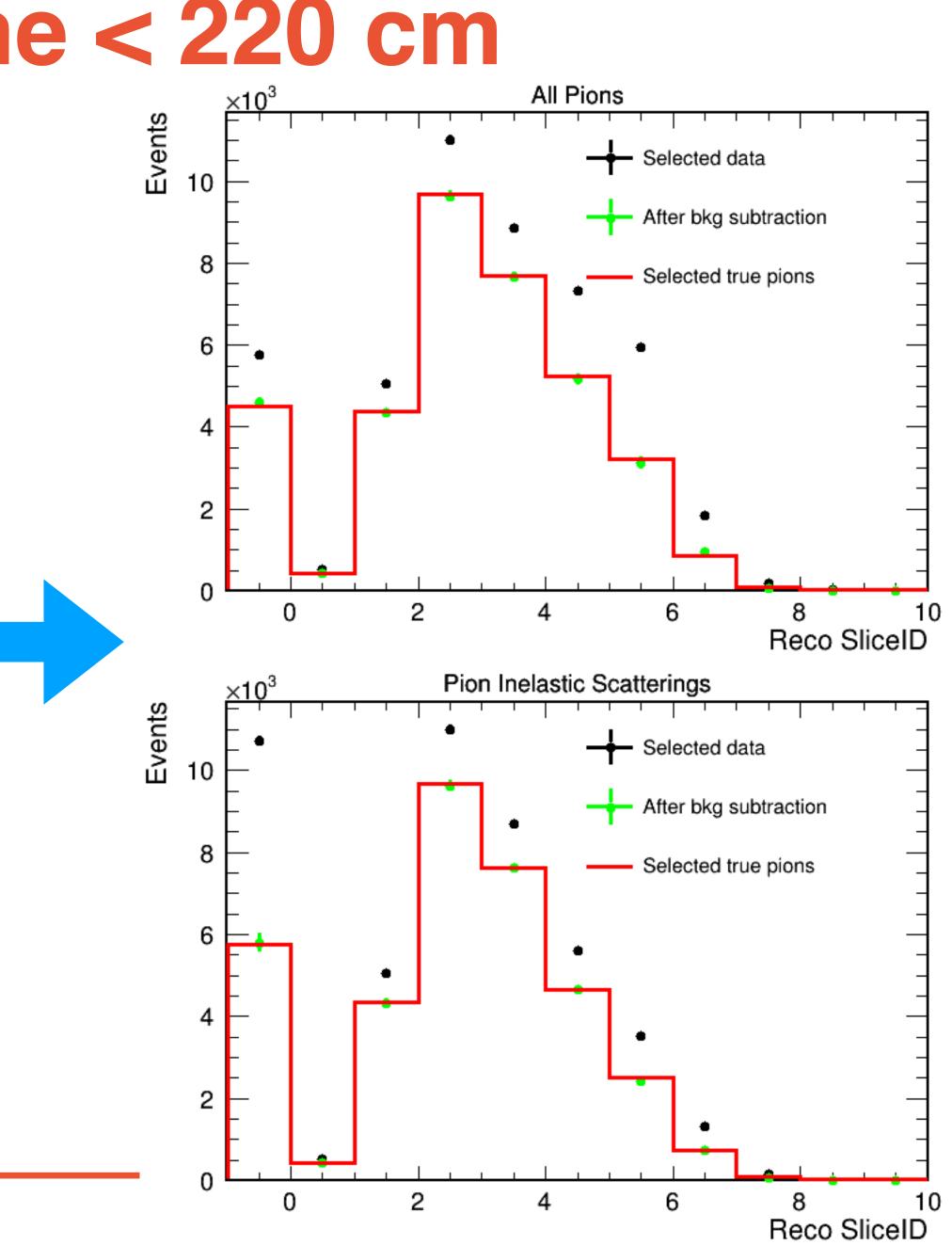




MC XS: Fiducial volume < 220 cm

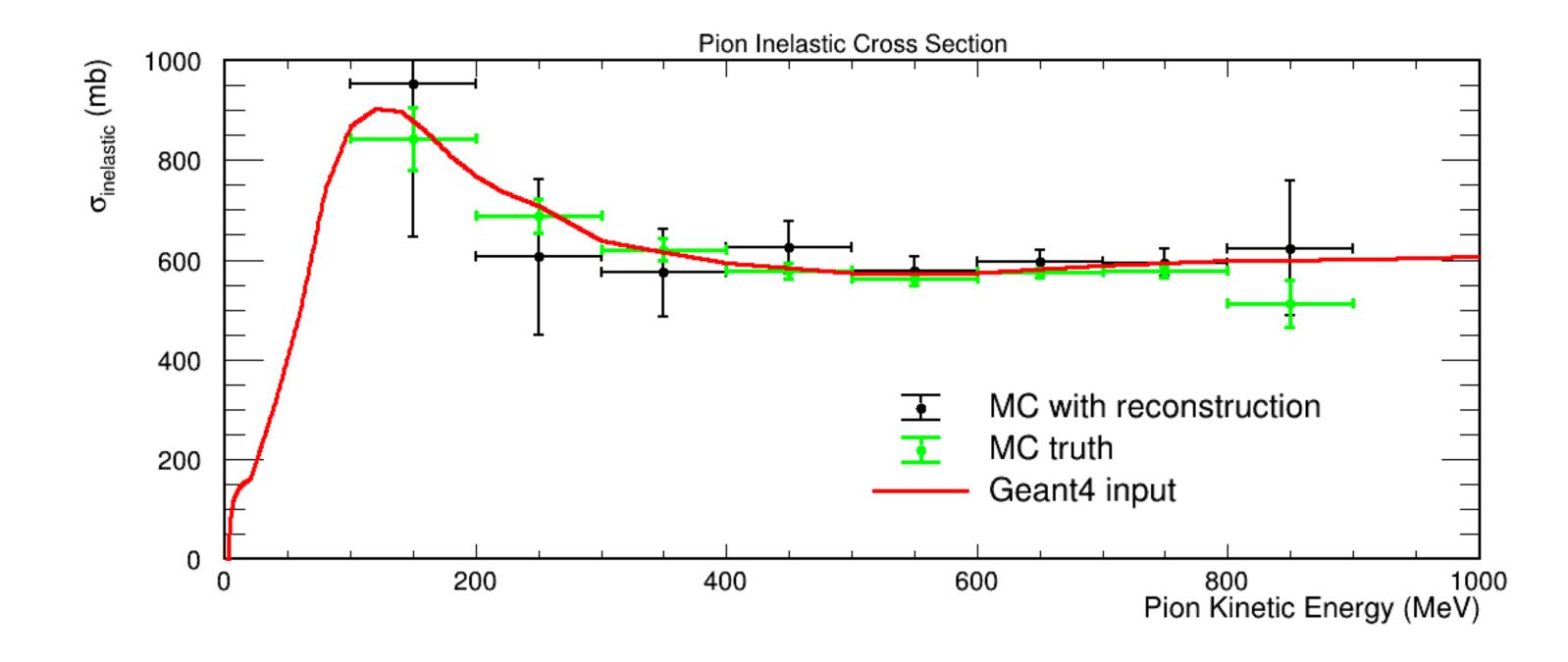


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MC XS: Fiducial volume \in [30, 220] cm



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