Status Report: Efficiency Correction, 2D Cuts

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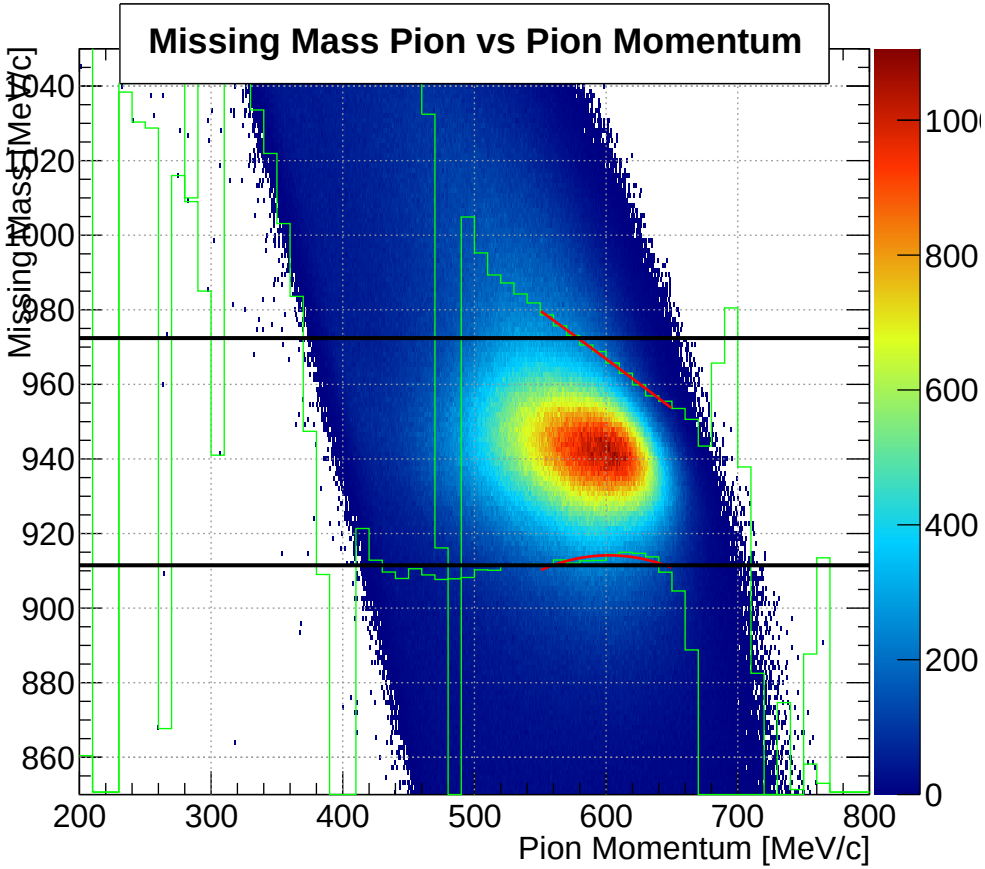
February 11, 2016

Introduction

- if not stated otherwise: Exp PE 690 Gen2 data
- using 2D cuts for efficiency determination
- carbon scaling and expected/measured distribution not shown

Cut on Missing Mass Pion Exp



- 2 σ cut
- black: 1D Cut
- green: σ of momentum slices
- red: fitted (parabola) 2D Cut

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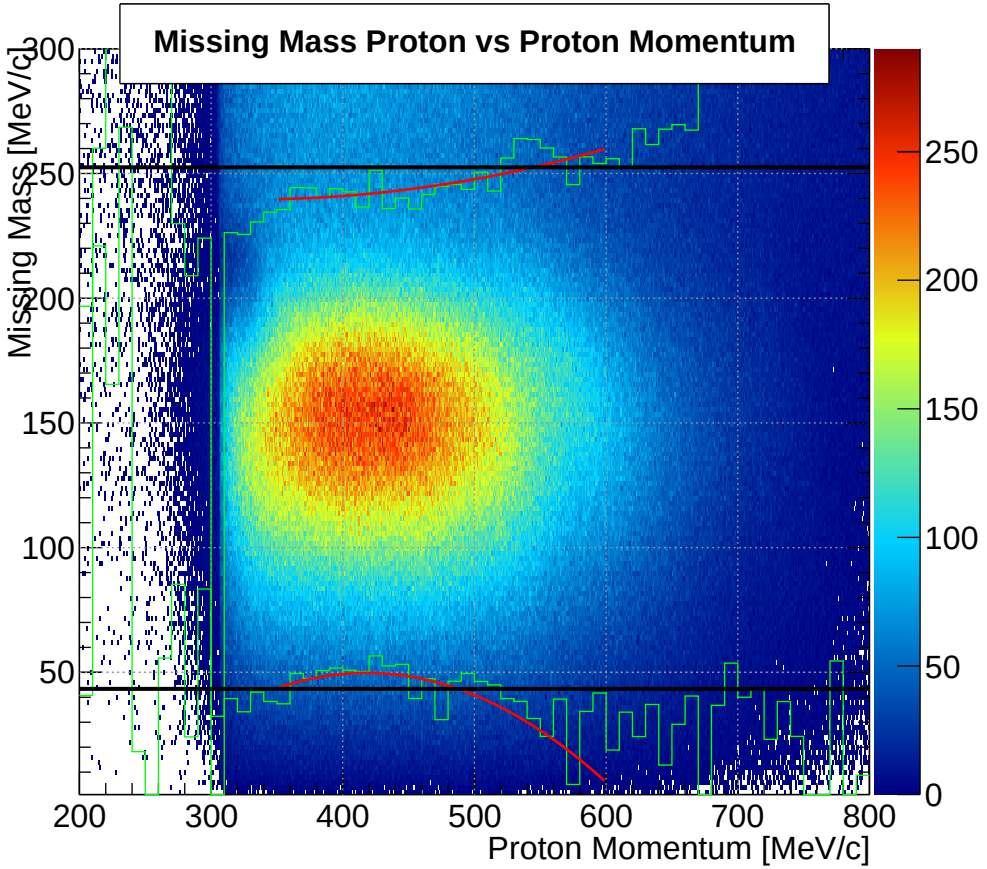

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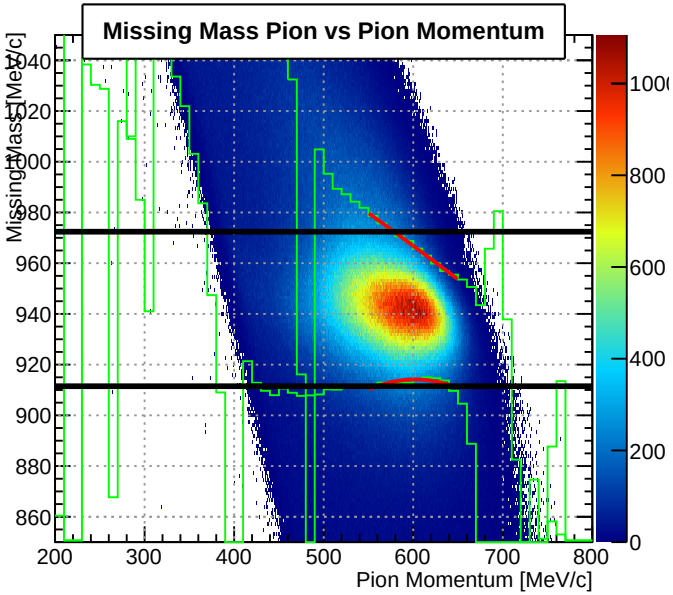
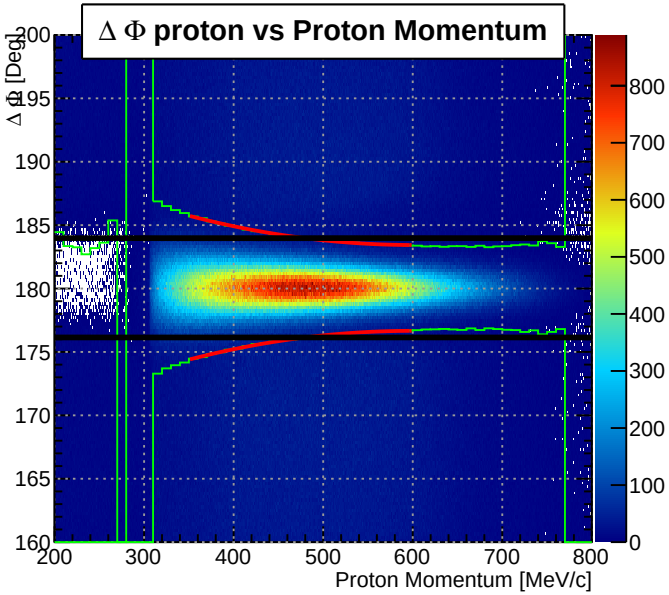
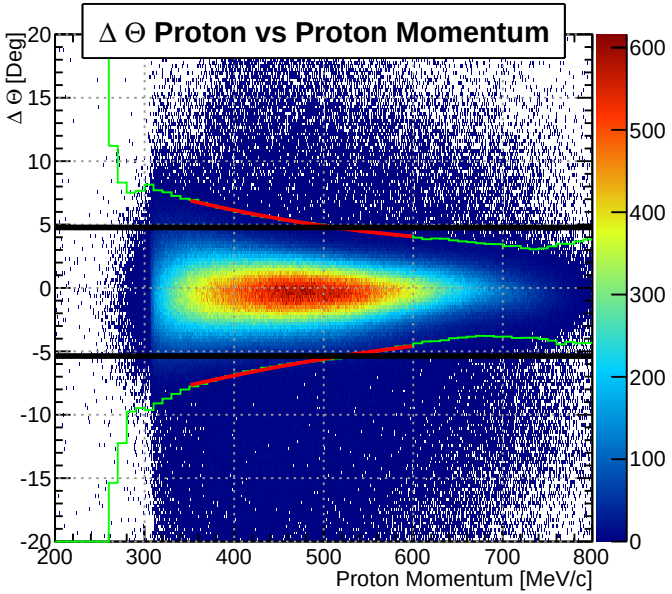
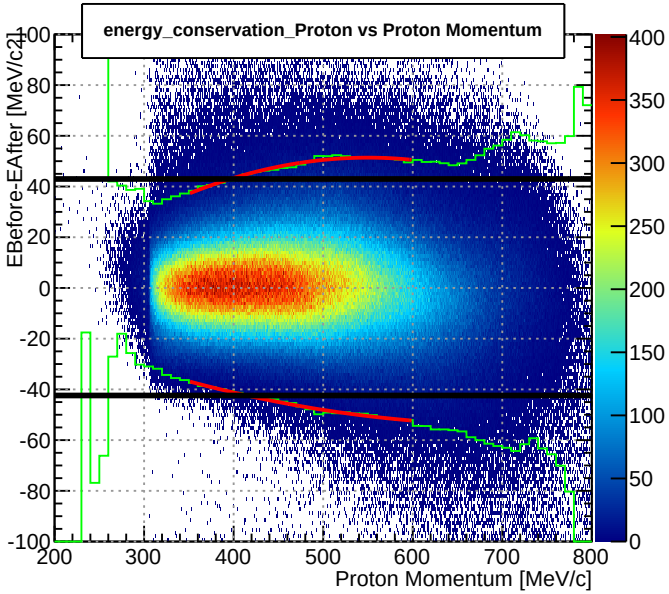
Cut on ES Proton Exp









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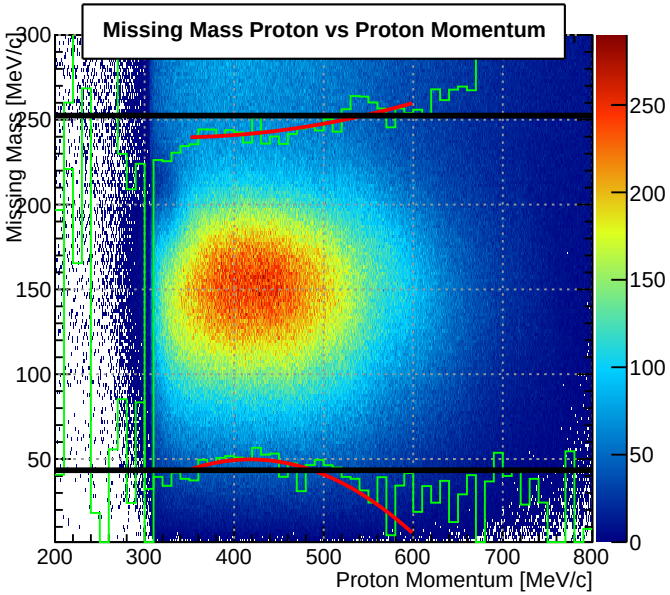
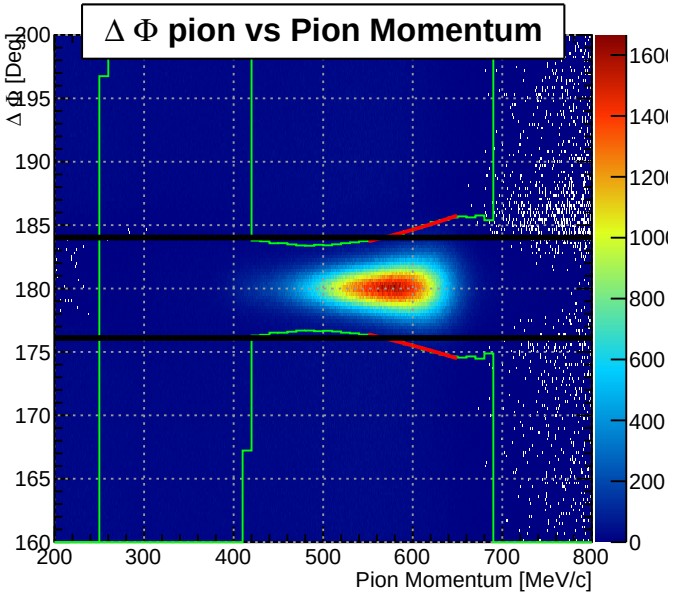
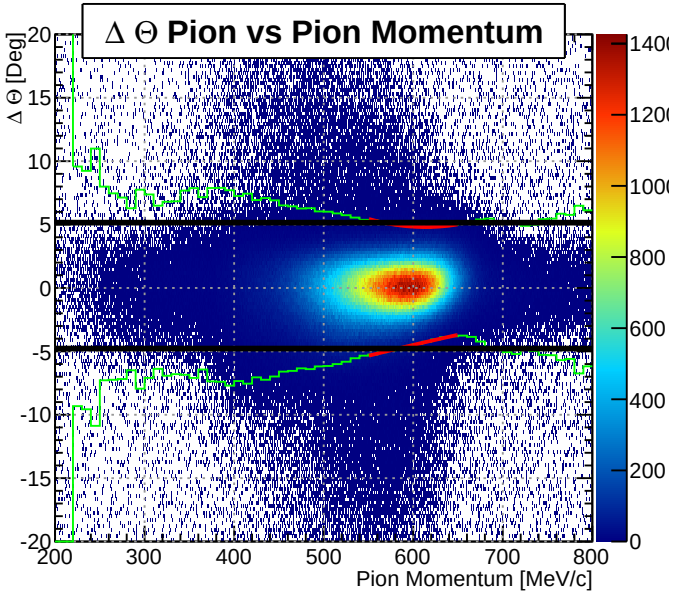
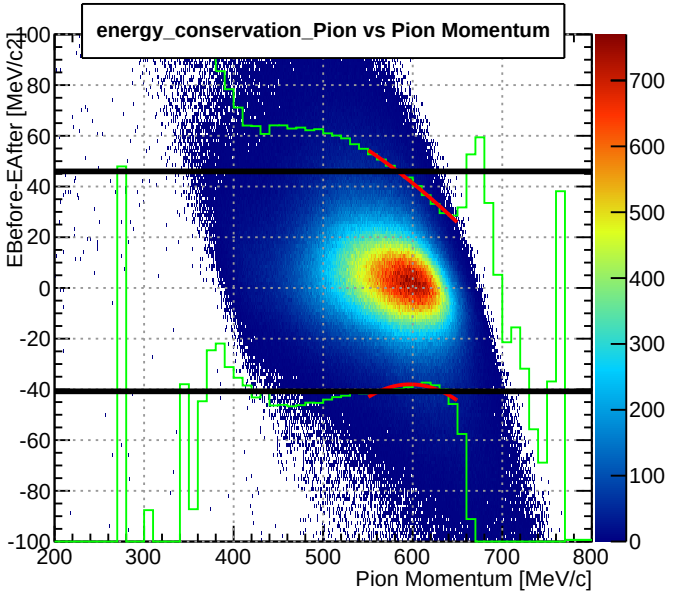
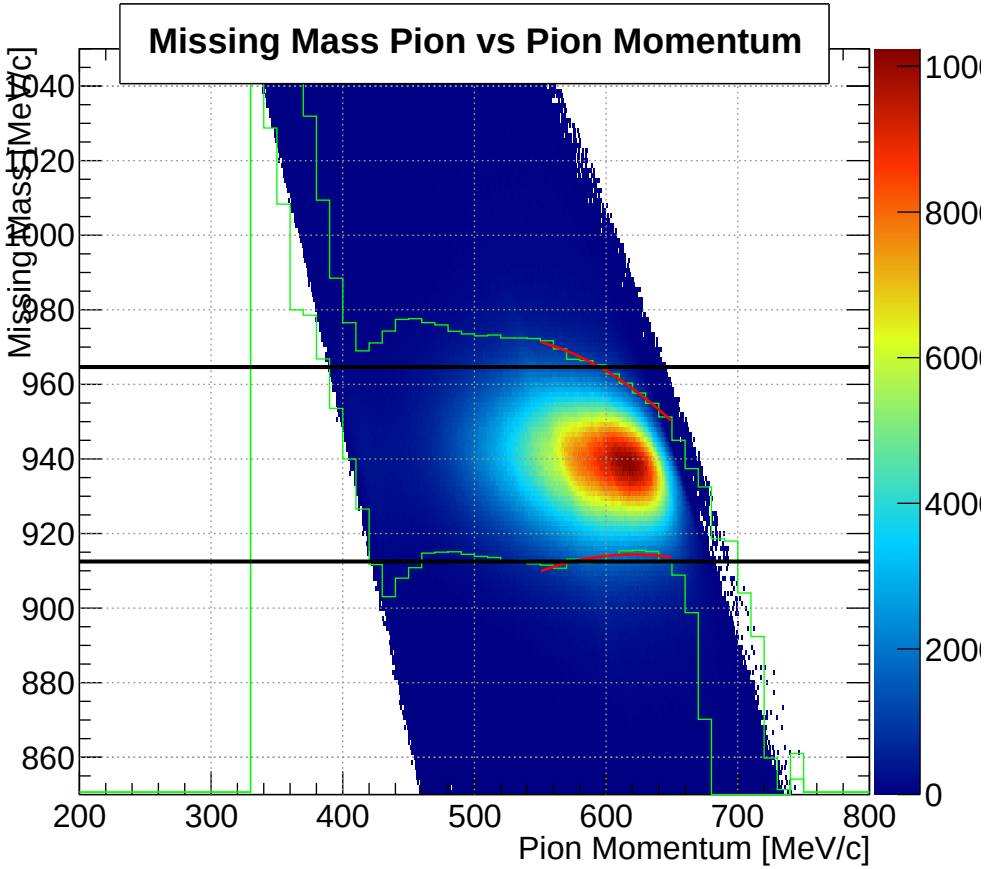








Cut on Missing Mass Pion Sim



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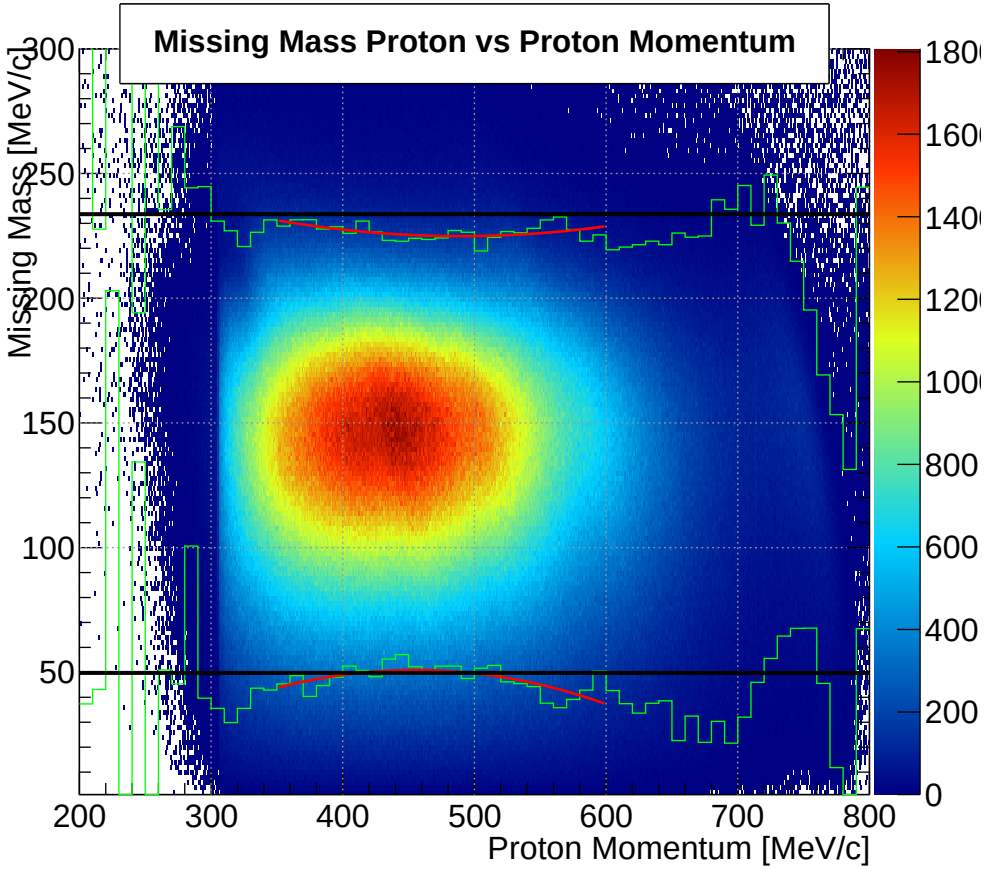

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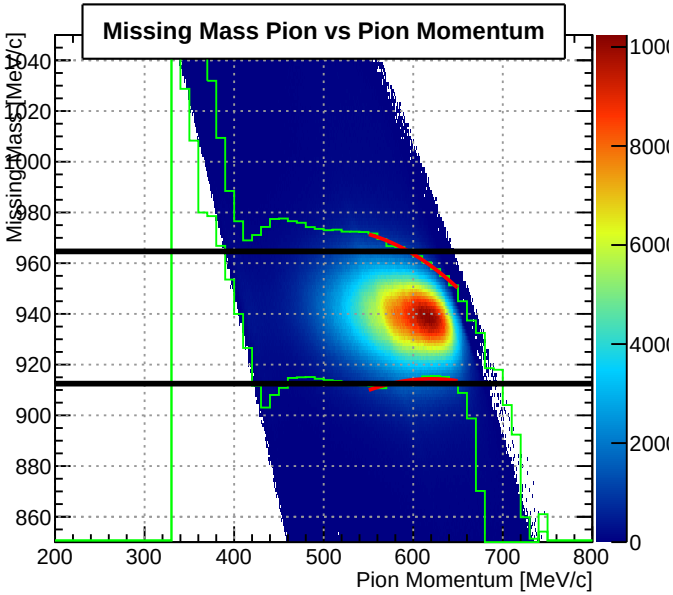

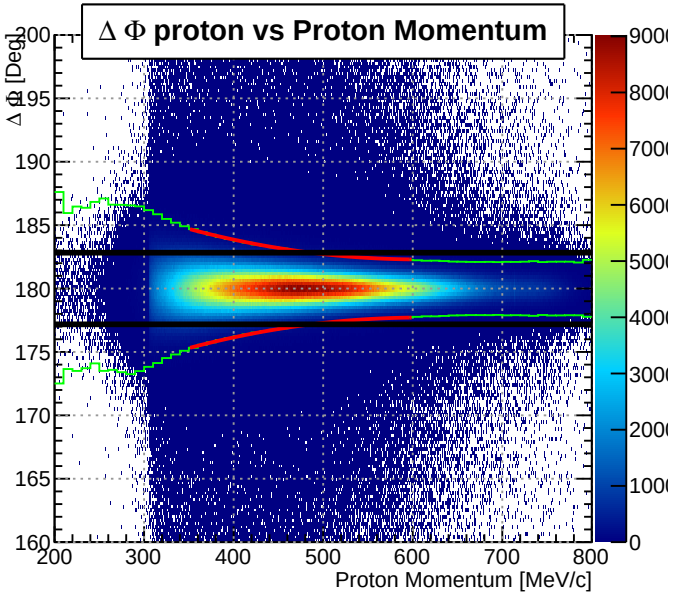

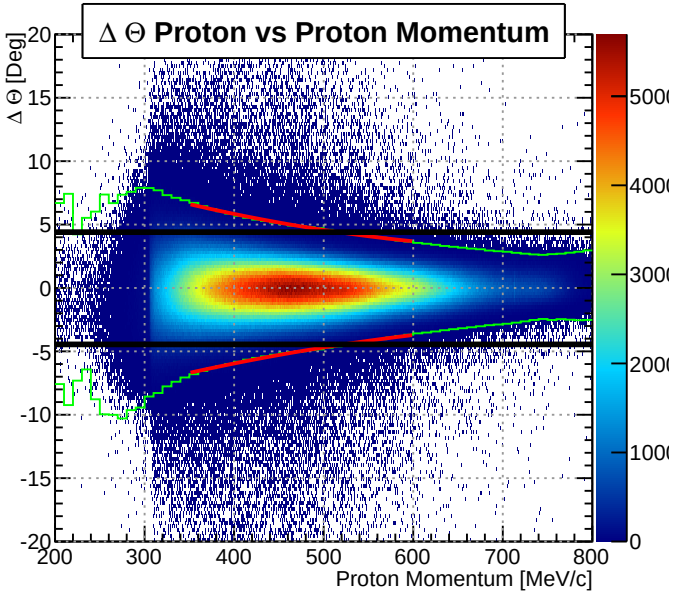

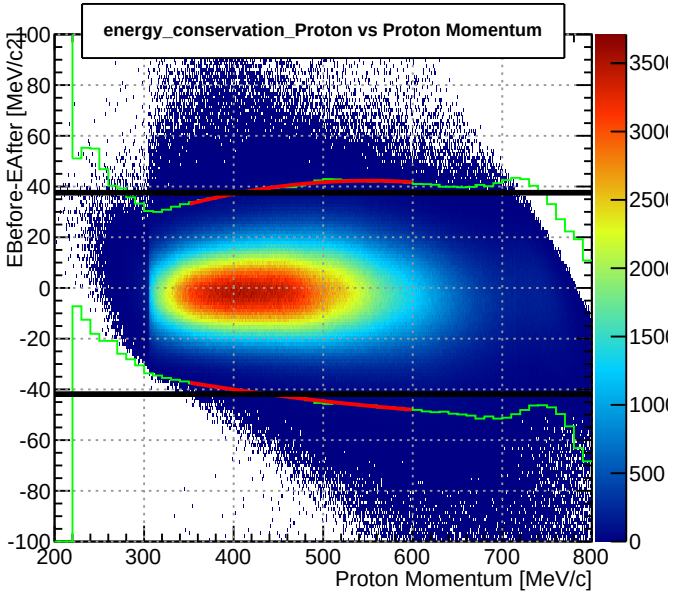

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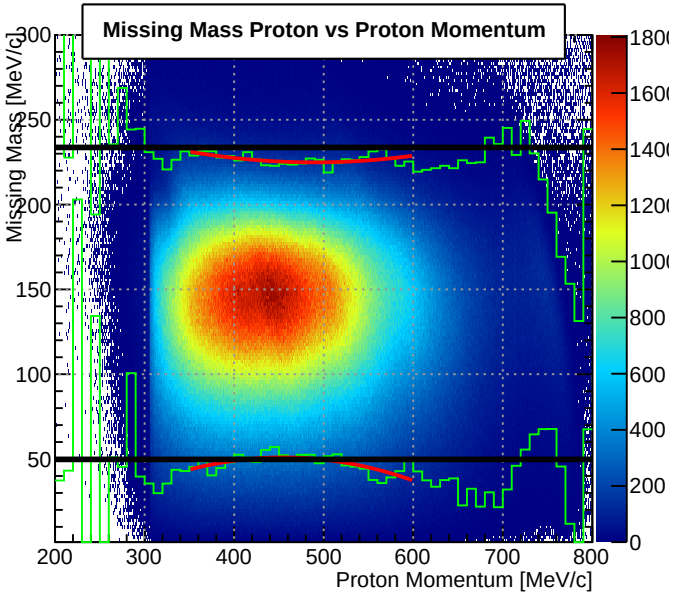
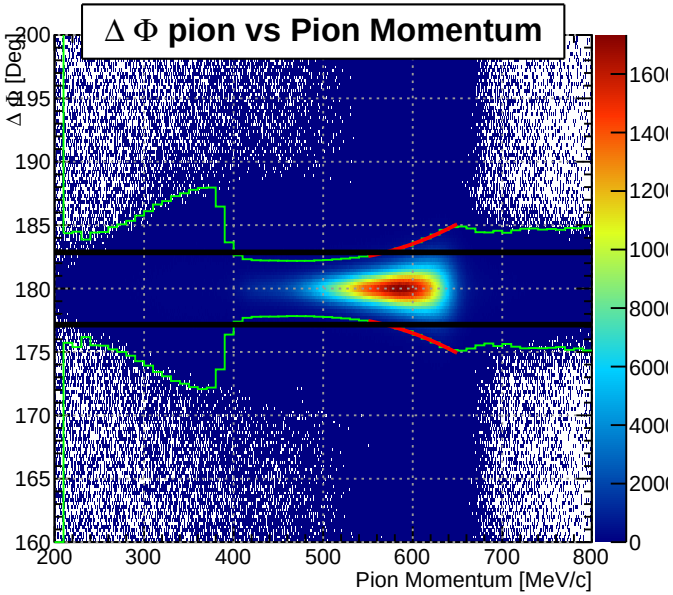
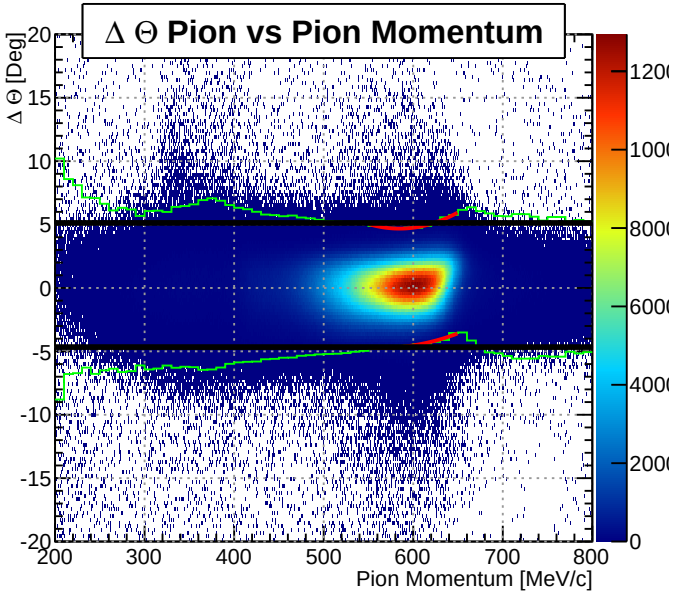
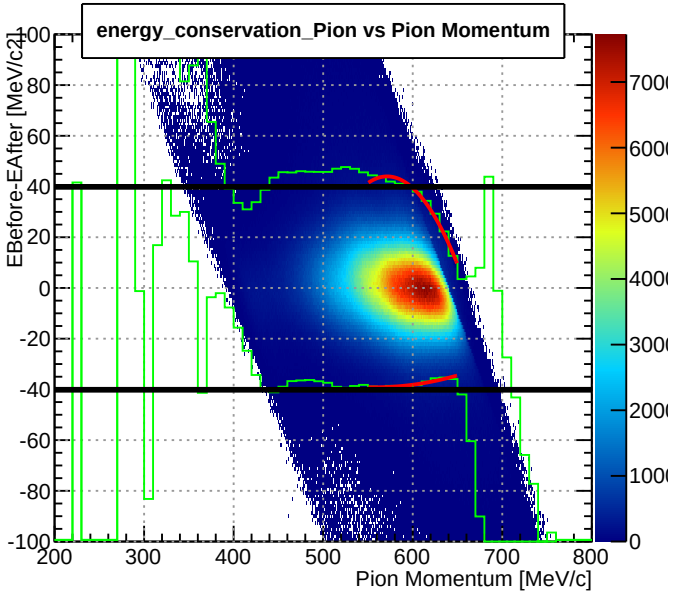
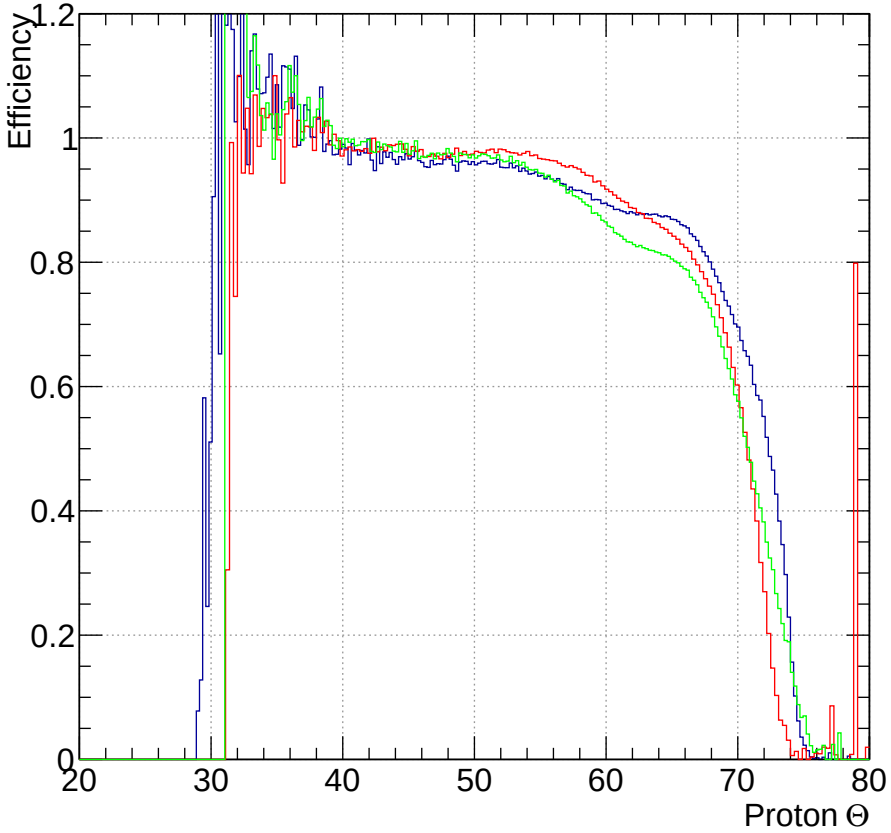






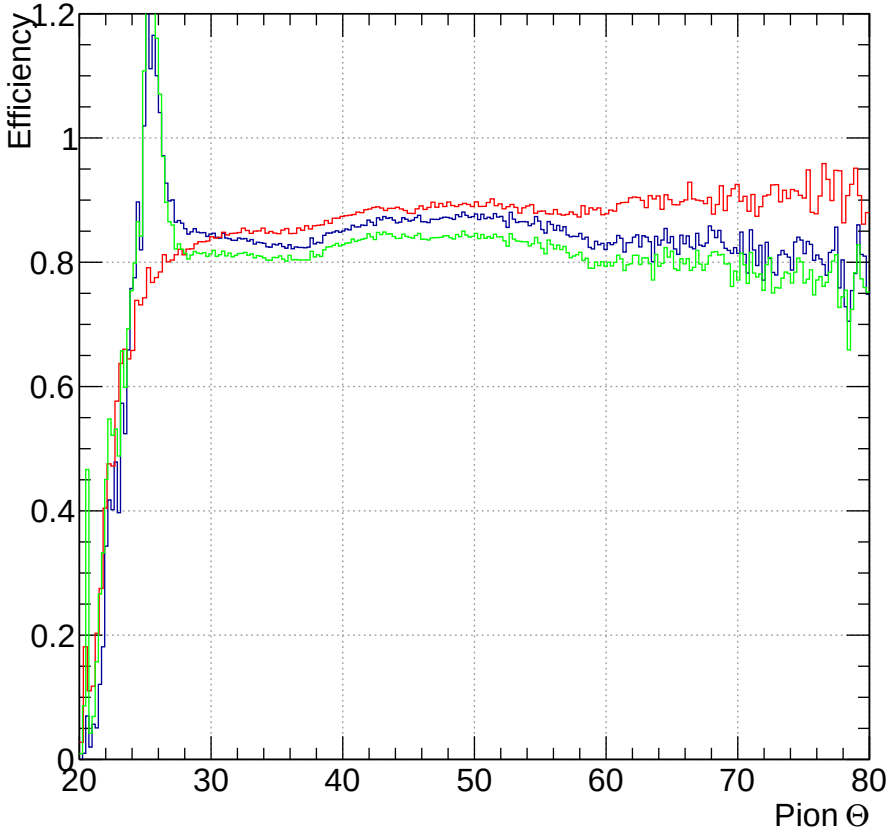


Compare Efficiencies for Gen1, Gen2 (1D) and Gen2 (2D) Proton, Exp



- 2 σ cut on Missing Mass, 3 σ rest
- blue: Gen2, 2D
- green: Gen2, 1D
- red: Gen1, 1D

Compare Efficiencies for Gen1, Gen2 (1D) and Gen2 (2D) Pion, Exp



- 2 σ cut on Missing Mass, 3 σ rest
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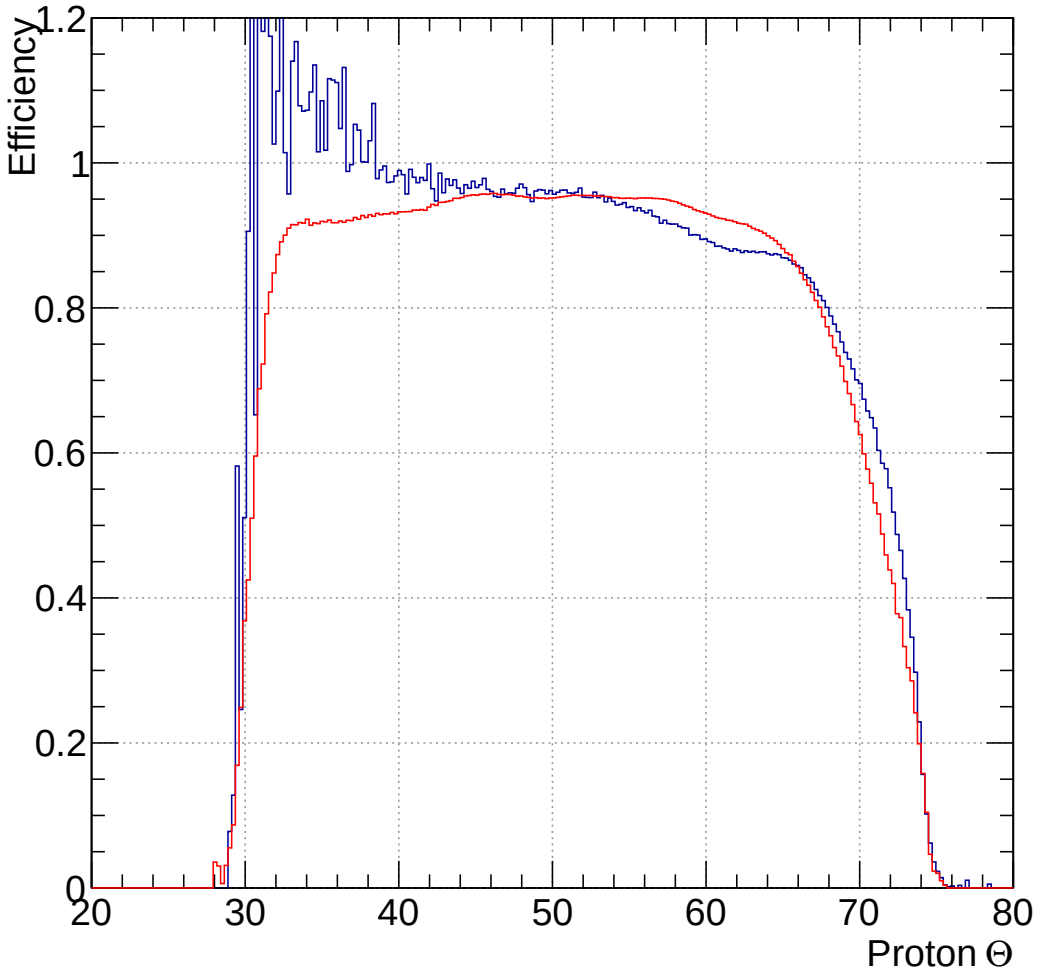
Compare Efficiencies for Gen2 (2D) Proton, Exp and Sim



- 2 σ cut on Missing Mass, 3 σ rest
- blue: Exp, Gen2, 2D
- red: Sim, 2D

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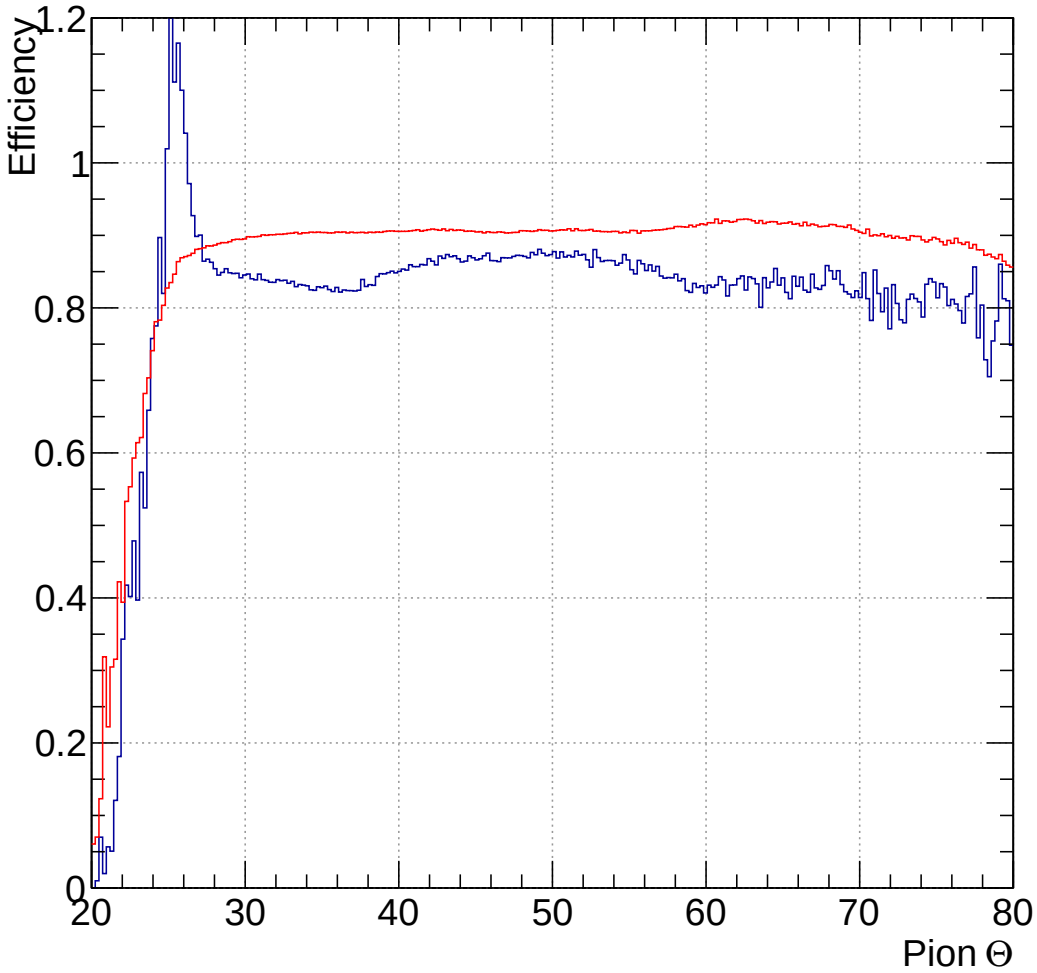

- 2 σ cut on Missing Mass, 3 σ rest
- blue: Exp, Gen2, 2D
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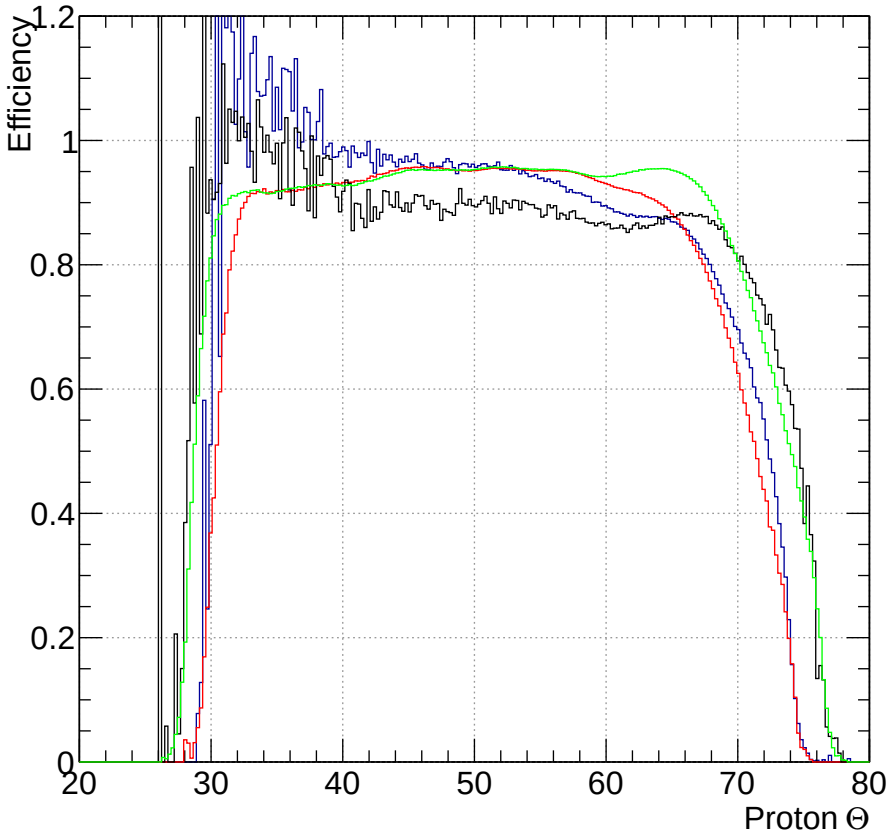
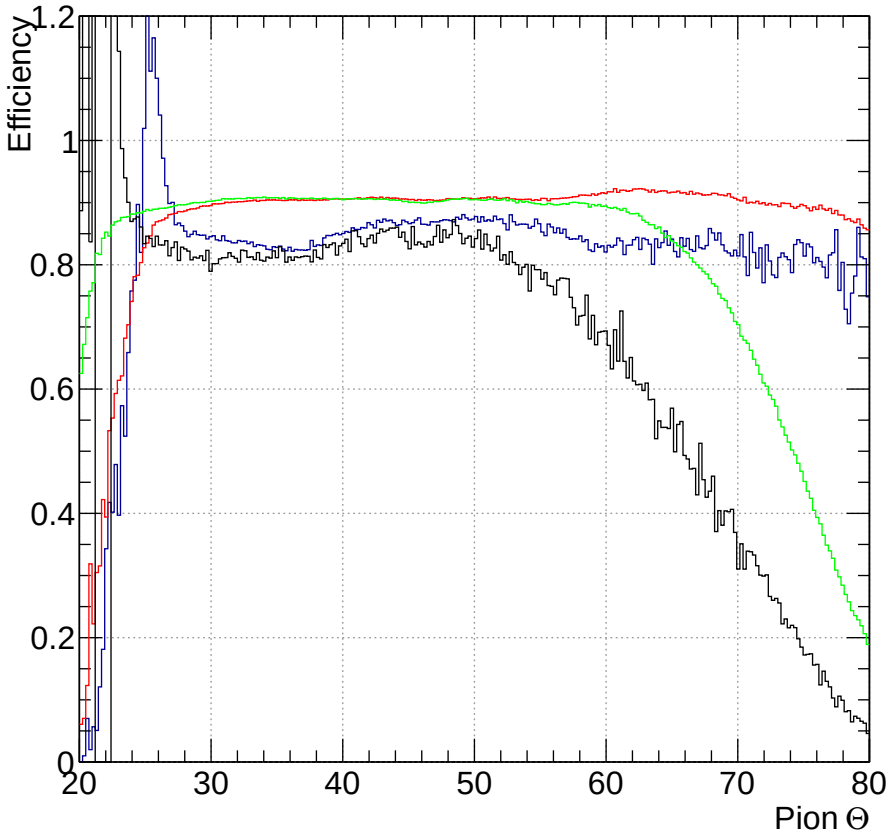
Compare Efficiencies for Gen2 (2D) Proton, 690 800, Exp Sim



- blue: Exp 690, Gen2
- red: Sim 690, 2D
- black: Exp 800, Gen2
- green: Sim 800, 2D

Compare Efficiencies for Gen2 (2D) Pion, 690 800, Exp Sim



- blue: Exp 690, Gen2
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- green: Sim 800, 2D