



University
of Regina

$H(e, e'p)$ Study

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RUN	7974	7975	7976
BCM1_Current/BCM1_Beam_Cut_Current	30.473/69.550	58.855/67.837	61.507/68.793
EDTM	0.8970	0.9011	0.9019
CPULT	0.9384	0.9063	0.9054
ELT (formula)	0.9559	0.9943	0.9961
ELT (gain 55ns)*	0.999776975	0.999782805	0.99978

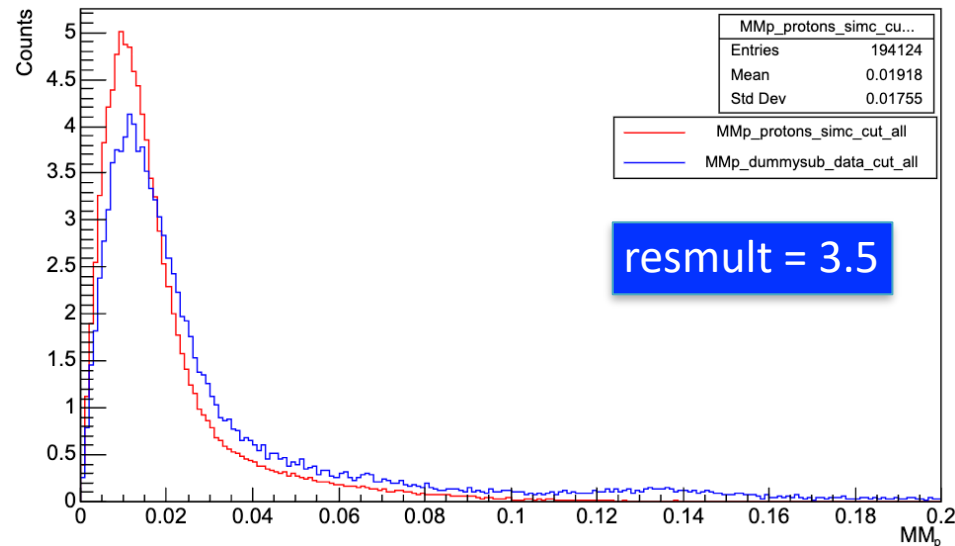
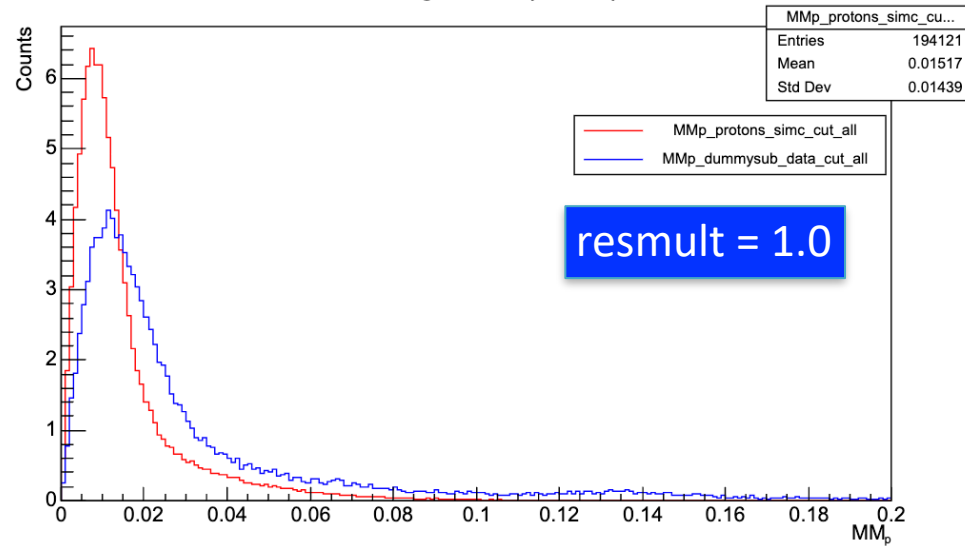
*KLT_SHMS_3/4_Trigger_Rate + KLT_HMS_EL-REAL_Trigger_Rate = 3.806 + 0.249 = 4.055 kHz

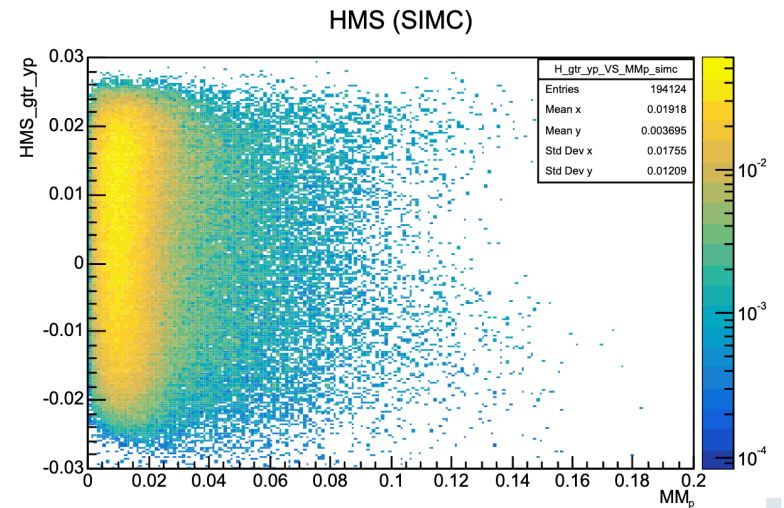
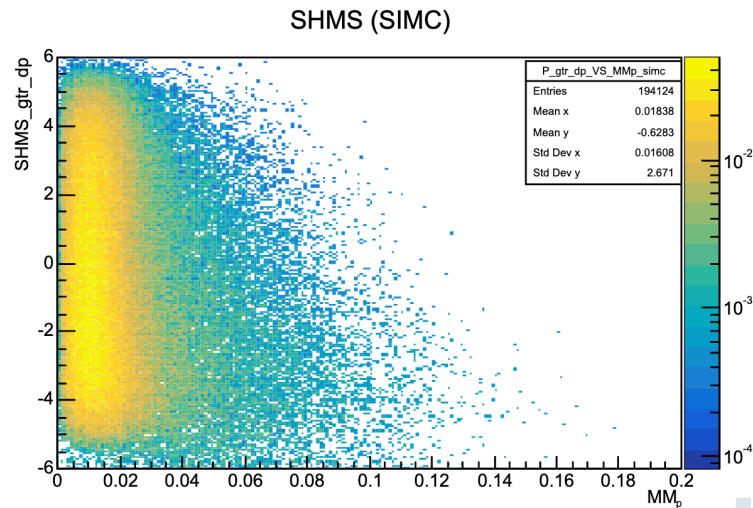
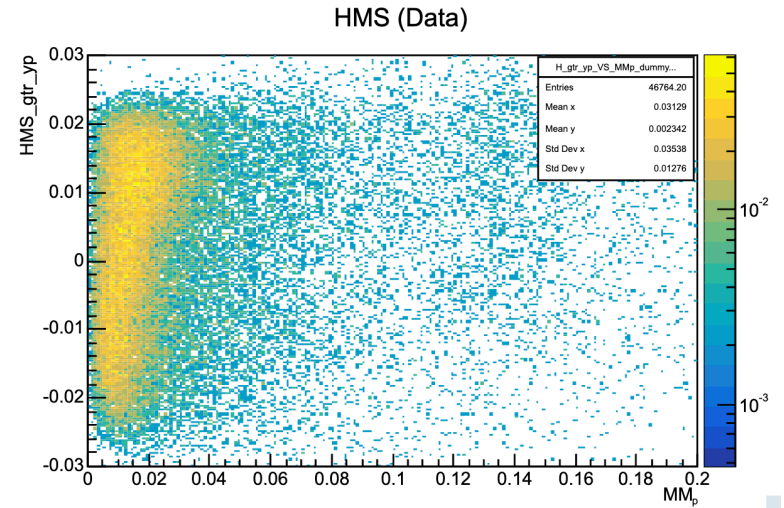
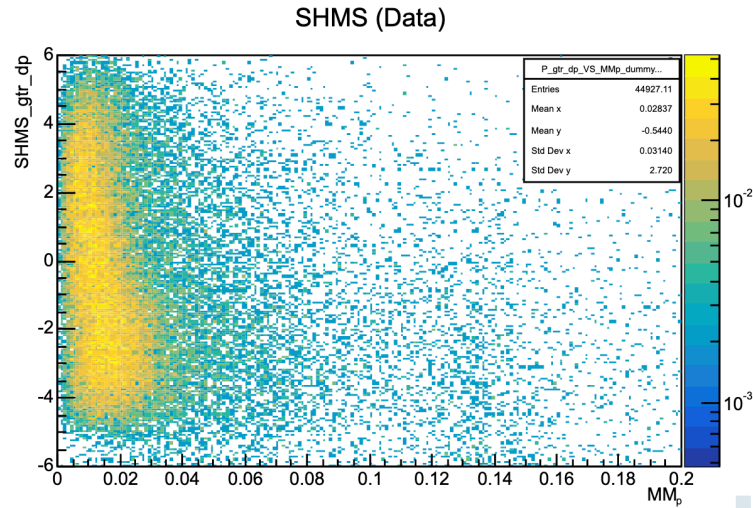
Data/SIMC ratio pmiss = 1.126 +/- 0.006

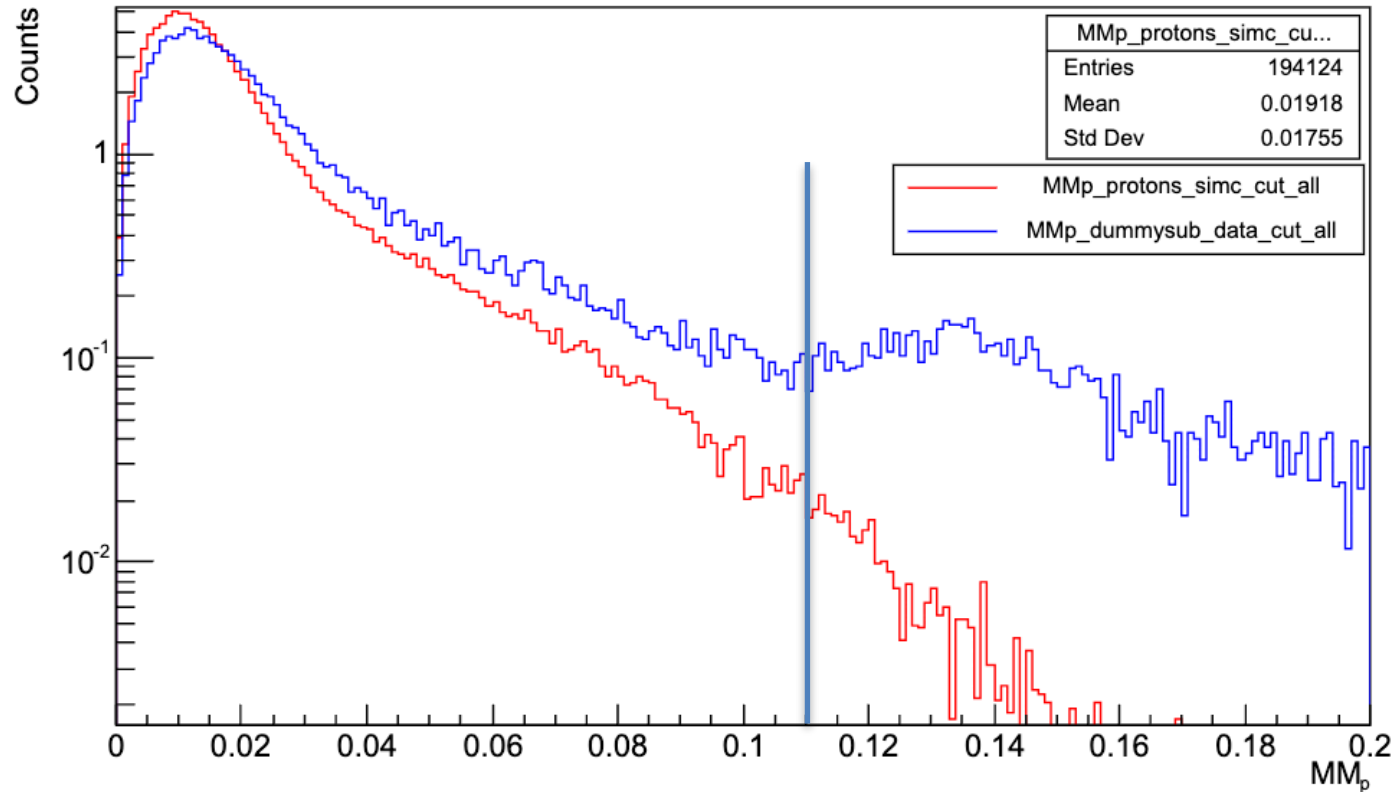
Default

Data/SIMC ratio pmiss = 1.111 +/- 0.006

EDTM_Live_Time = COIN_CPULT * ELT

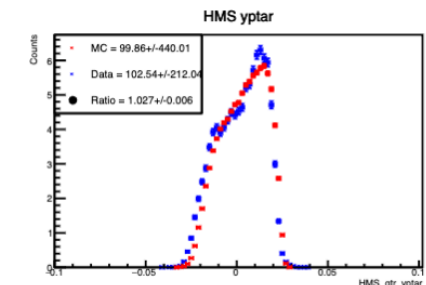
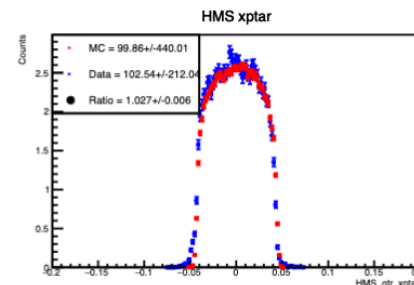
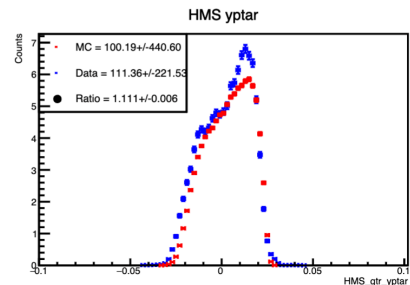
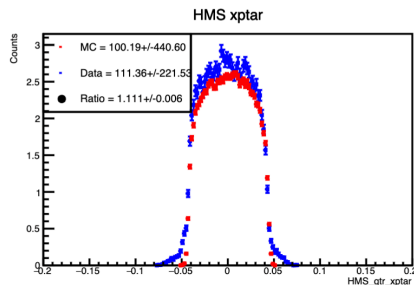
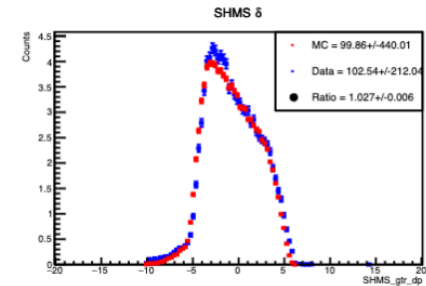
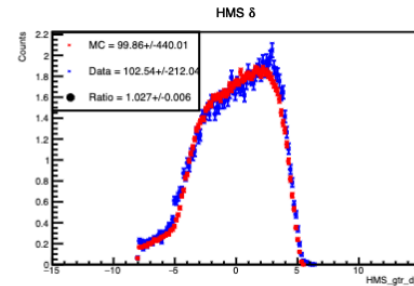
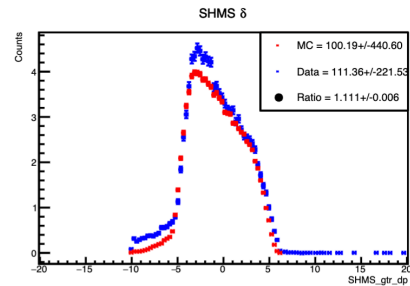
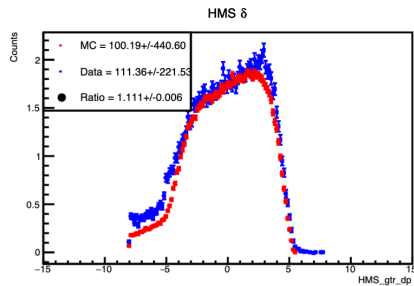






No MMp Cut

MMp < 0.11 GeV/c²



Data/SIMC ratio pmiss = 1.126 +/- 0.006

Default

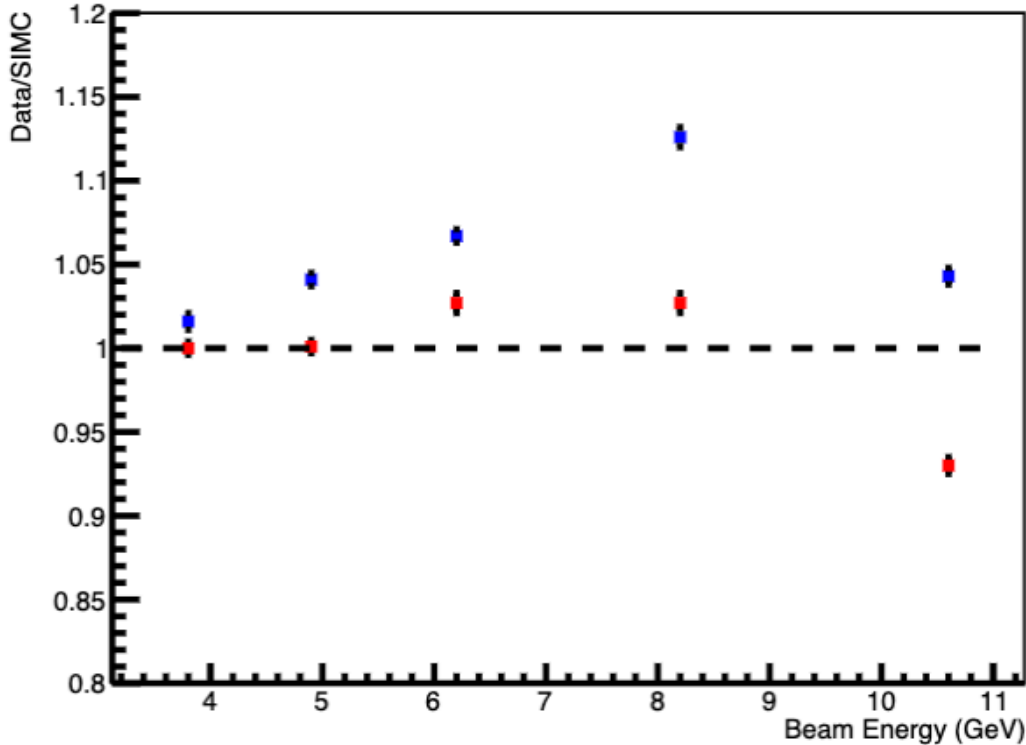
Data/SIMC ratio pmiss = 1.111 +/- 0.006

EDTM_Live_Time = COIN_CPULT * ELT

Data/SIMC ratio pmiss = 1.027 +/- 0.006

MMp < 0.11 GeV/c²

HeeP Yield Ratio



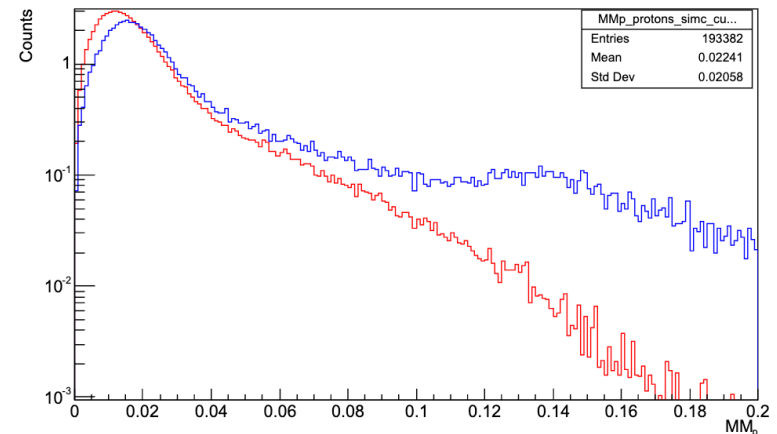
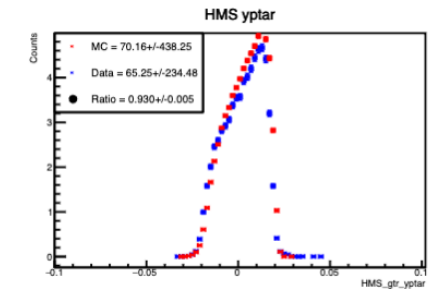
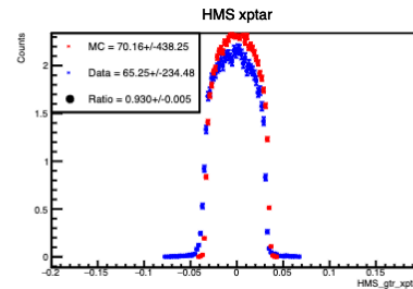
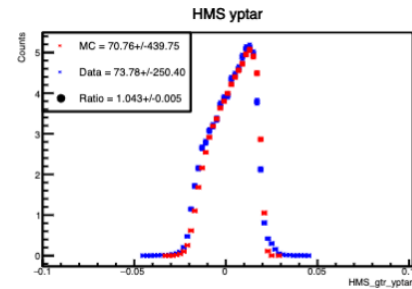
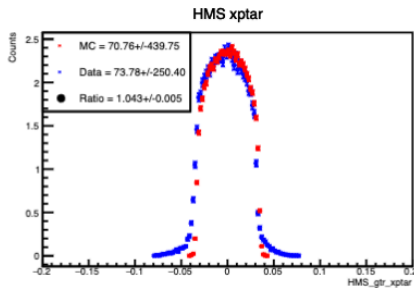
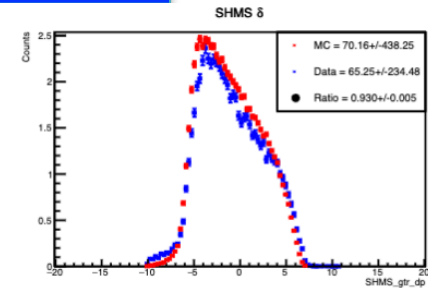
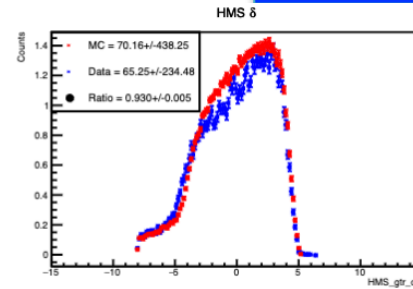
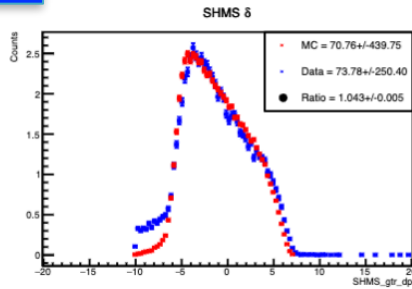
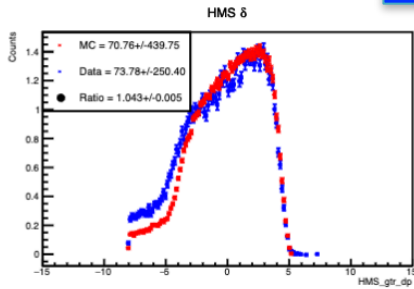
Beam Energy (GeV)	3.8	4.9	6.2	6.8	10.6
Data/SIMC	1.000 +/- 0.004	1.001 +/- 0.004	1.019 +/- 0.004	1.027 +/- 0.006	0.930 +/- 0.005

HeeP Yield Ratio

10.6 GeV

No cut

MMp < 0.11 GeV/c²



Data/SIMC = 1.043 +/- 0.005

No cut

Data/SIMC = 0.930 +/- 0.005

MMp < 0.11 GeV/c²