



$H(e, e')p$ Singles

Abdennacer Hamdi

Kaon LT Meeting
12/12/2024

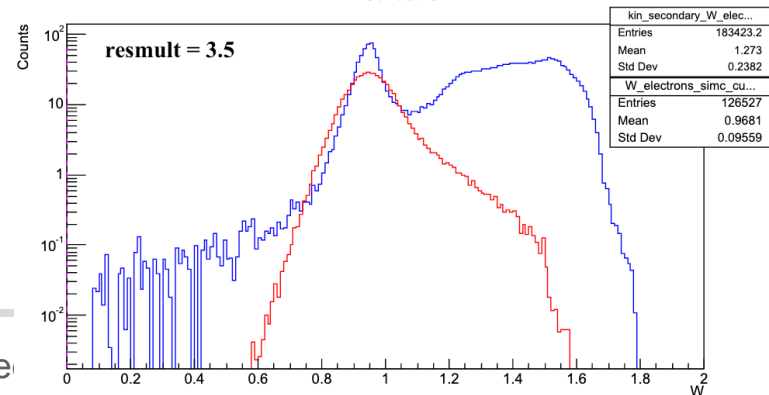
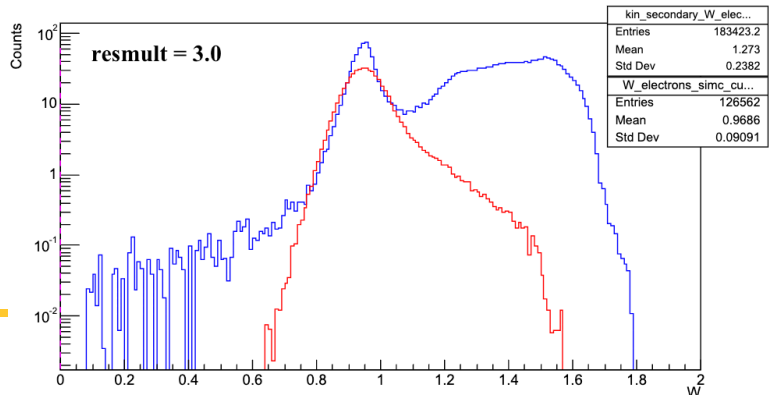
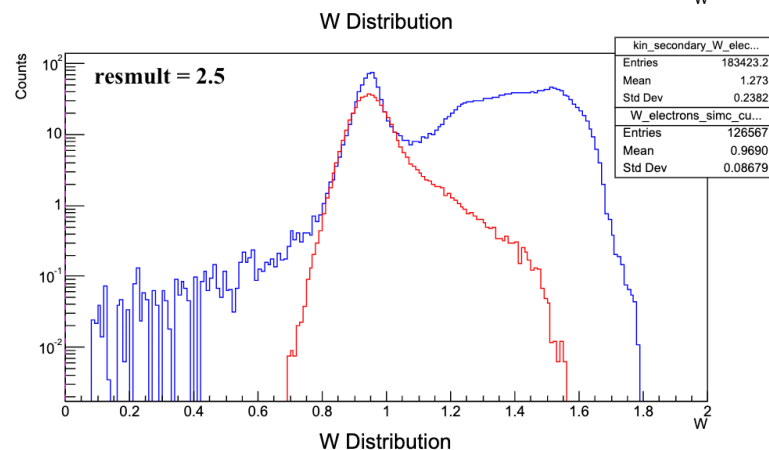
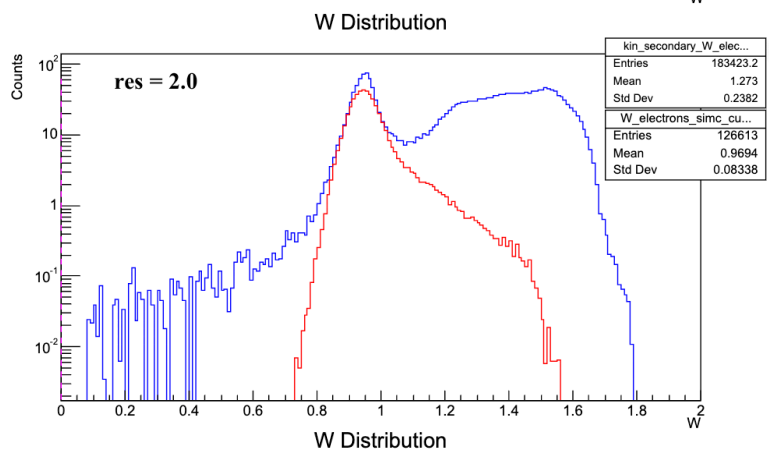
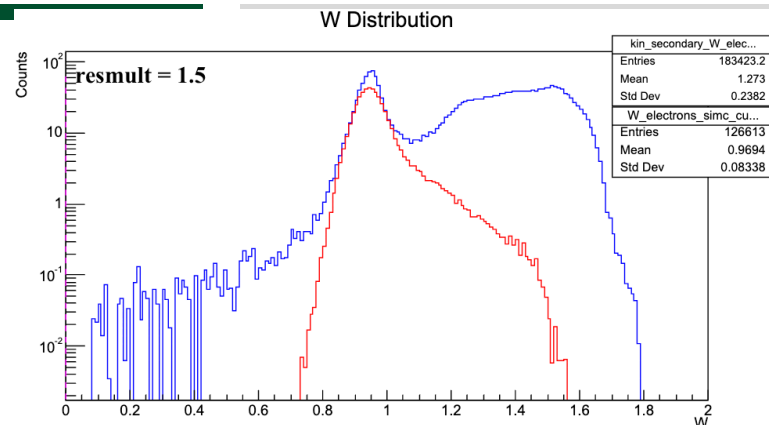
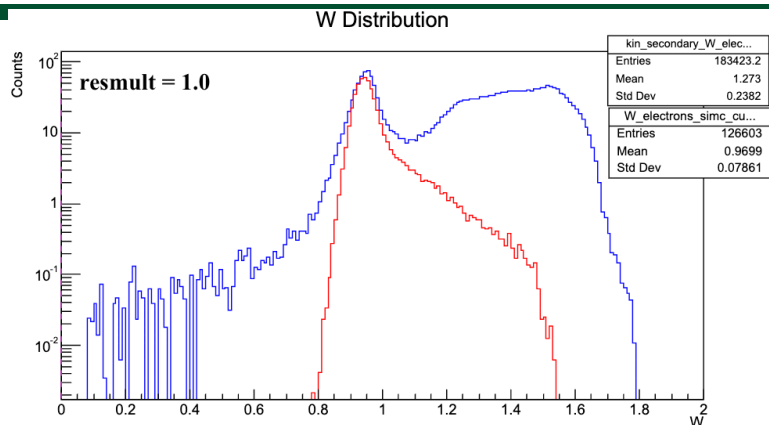
HeeP singles

Run	Type	P_SHMS	Theta_SHMS	P_HMS	Theta_HMS	Target	Ebeam	Current
6629	Heep#4	-2.583	28.19	-2.026	38.60	LH2	3.835	40
6630	Heep#4	-2.583	28.19	-2.026	38.60	Dummy	3.835	40
6878	Heep#4	2.583	34.2	2.583	-34.20	Dummy	4.933	40
6879	Heep#4	2.583	34.2	2.583	-34.20	LH2	4.933	70
6880	Heep#4	2.583	34.2	2.583	-34.20	LH2	4.933	70
7856	Heep	3.491	28.000	3.491	28.000	Dummy	6.19009	40.028
7857	Heep	3.491	28.00	3.491	28.00	LH2	6.19009	72.599
7968	Heep	4.672	24.00	4.672	-24.00	LH2	8.2	50.428
7969	Heep	4.672	24.00	4.672	-24.00	Dummy	8.2	39.553
4821	Heep8	-8.035	15.650	-6.590	19.755	LH2	10.59	15.5
4822	Heep8	-8.035	15.650	-6.590	19.755	Dummy	10.59	25.9
4824	Heep8	-8.035	15.650	-6.590	19.755	LH2	10.59	31.5
4825	Heep8	-8.035	15.650	-6.590	19.755	LH2	10.59	32.4

W SIMC vs. Data

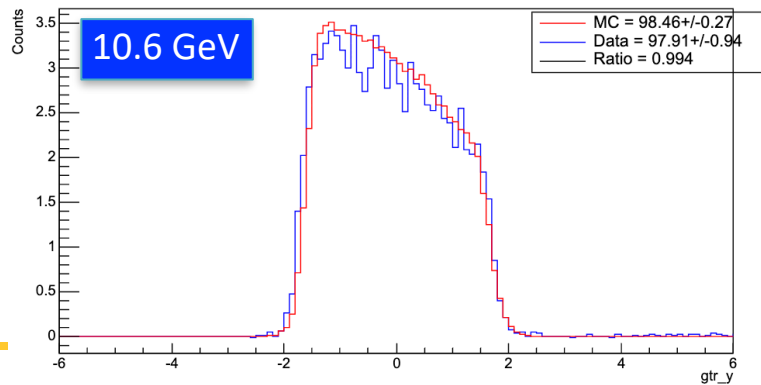
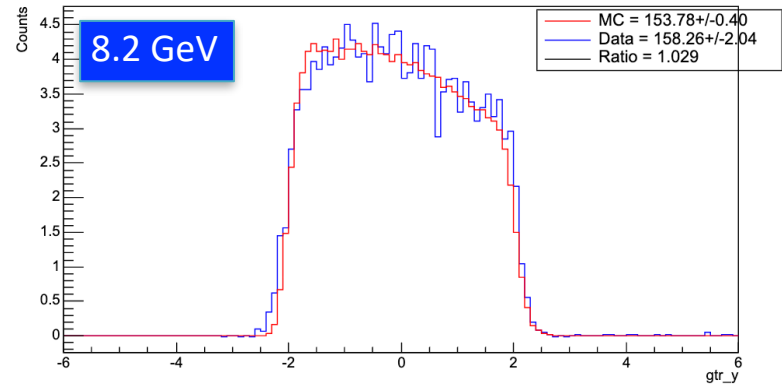
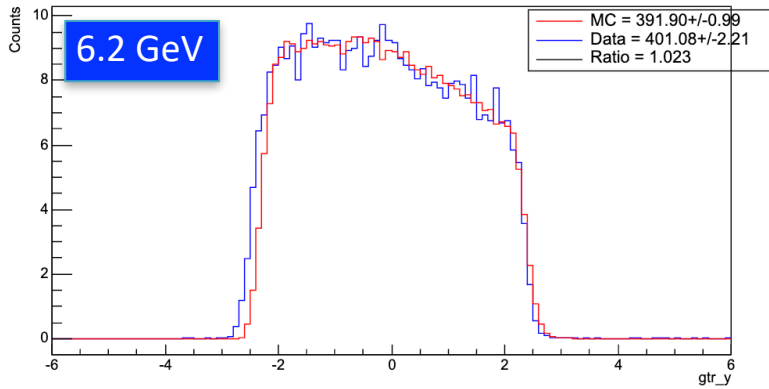
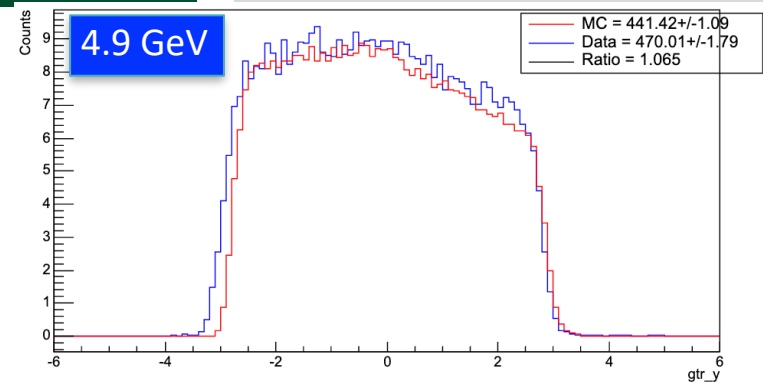
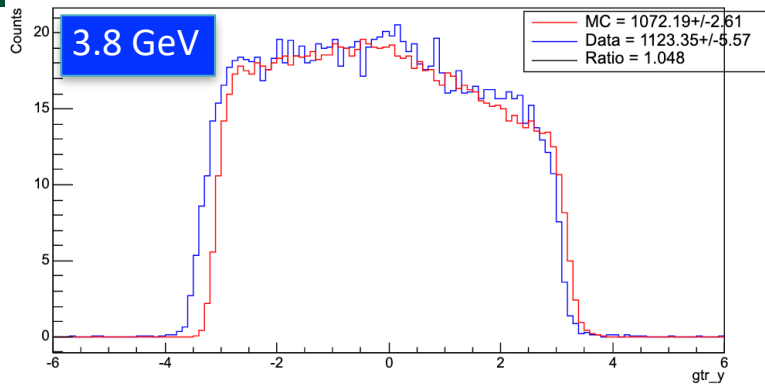
10.6 GeV

SHMS



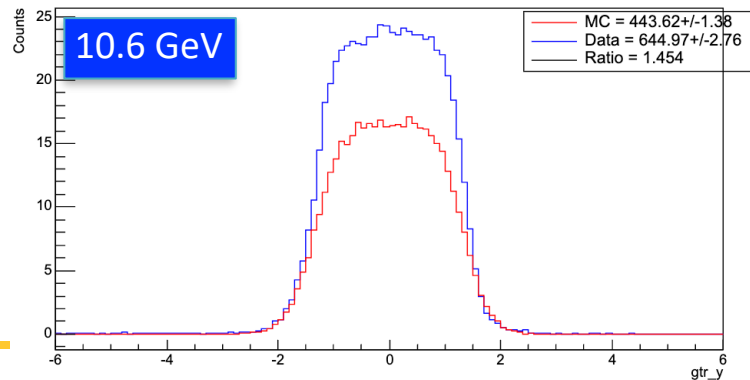
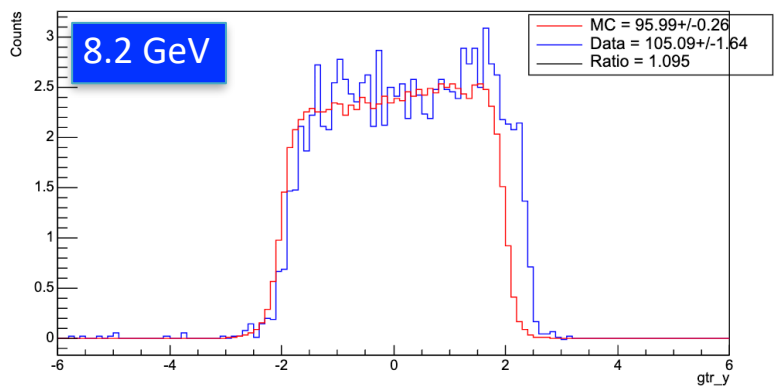
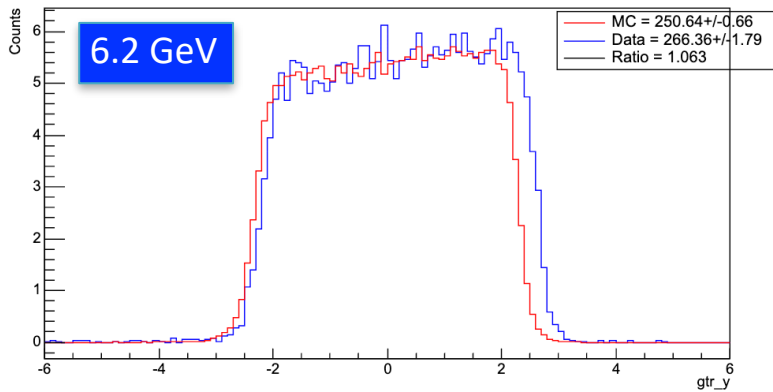
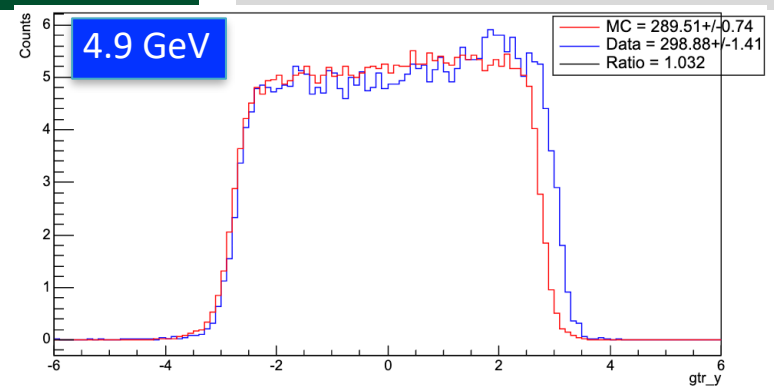
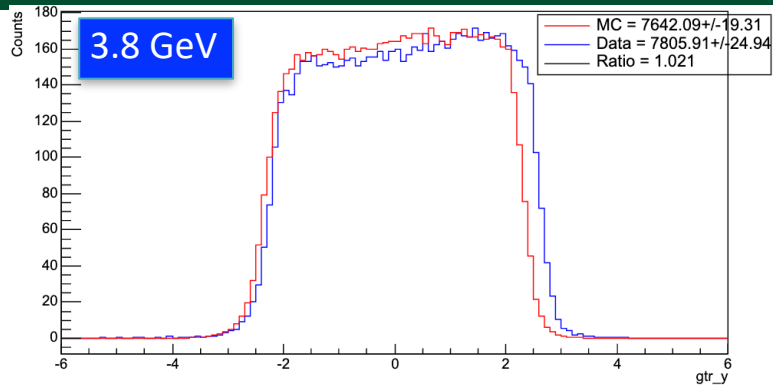
Y-tar SIMC vs. Data

HMS



Y-tar SIMC vs. Data

SHMS



HeeP Yield Ratio

Beam Energy (GeV)	3.8	4.9	6.2	8.2	10.6
HMS	1.048 +/- 0.011	1.065 +/- 0.008	1.023 +/- 0.010	1.029 +/- 0.019	0.994 +/- 0.014
HMS (γ -tar cut)	1.024 +/- 0.011	1.039 +/- 0.008	0.996 +/- 0.010	1.004 +/- 0.019	0.953 +/- 0.013

Beam Energy (GeV)	3.8	4.9	6.2	8.2	10.6
SHMS	1.021 +/- 0.006	1.032 +/- 0.007	1.063 +/- 0.009	1.086 +/- 0.019	1.436 +/- 0.009
SHMS (γ -tar cut)	0.972 +/- 0.006	0.987 +/- 0.007	1.010 +/- 0.009	1.035 +/- 0.020	1.436 +/- 0.009

HeeP Yield Ratio

Systematic errors for W cut (RMS/mean)

Beam Energy (GeV)	3.8	4.9	6.2	8.2	10.6
HMS	0.001	0.002	0.002	0.002	0.002
SHMS	0.002	0.003	0.004	0.004	0.054