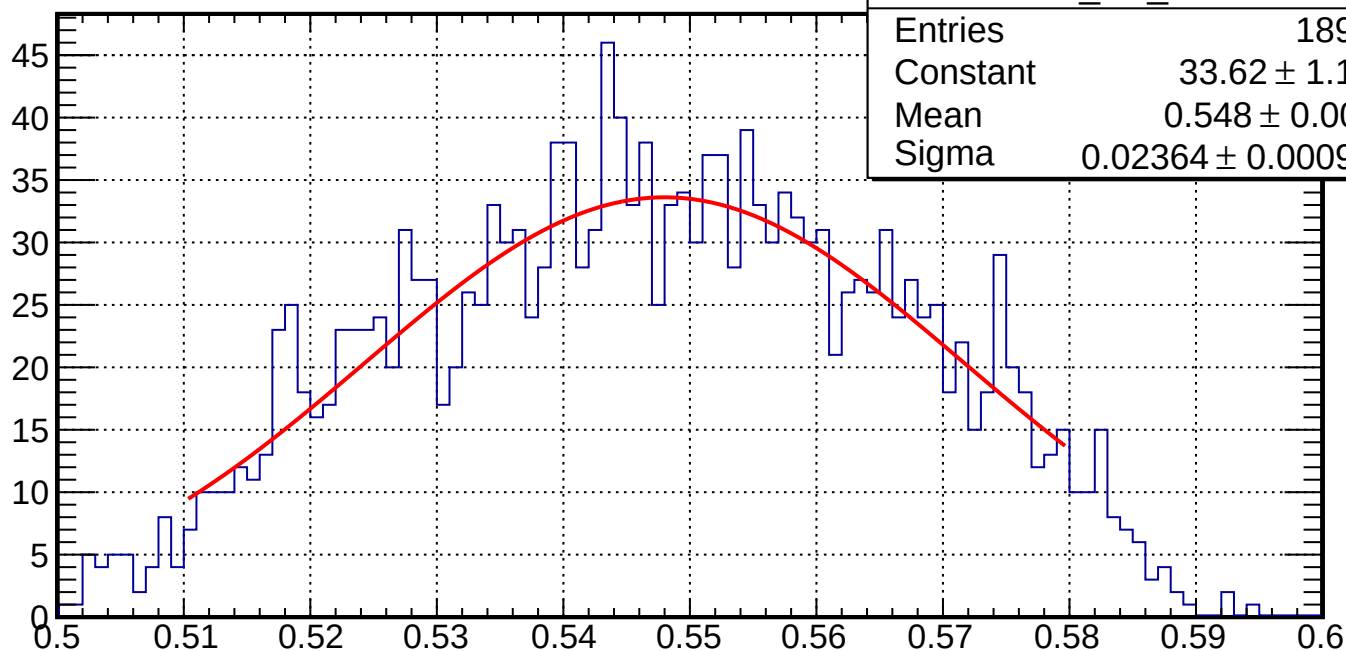
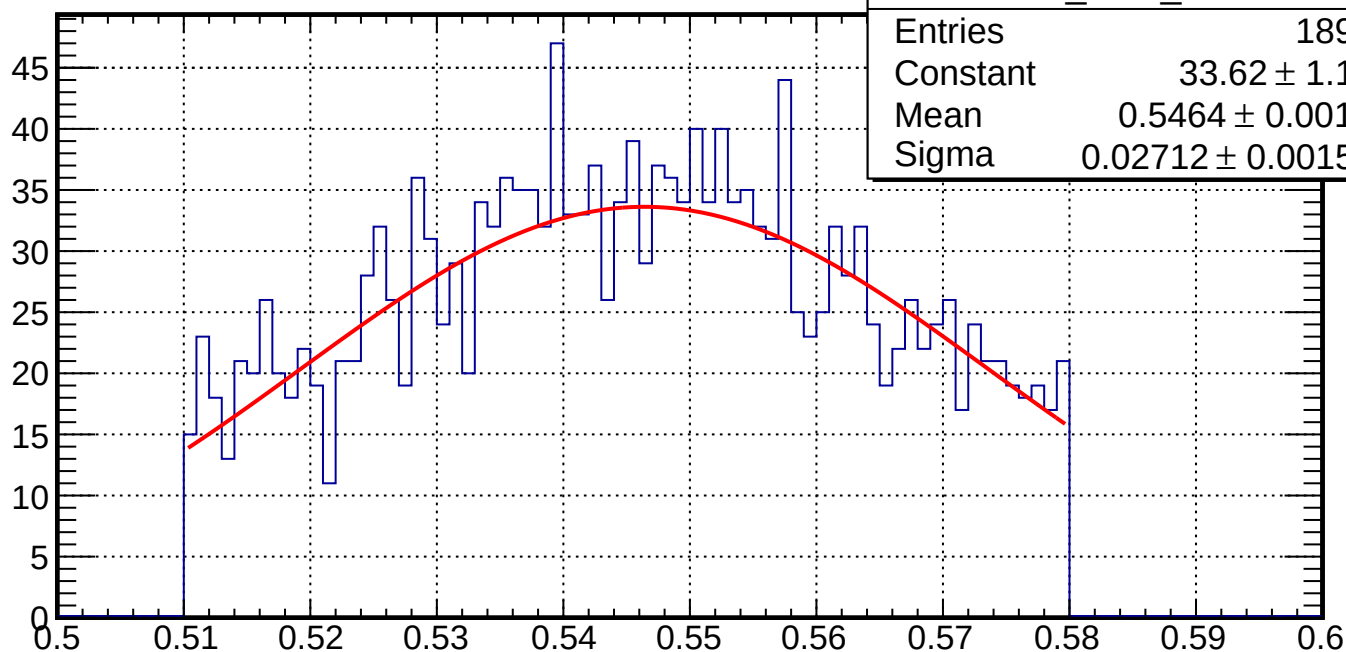


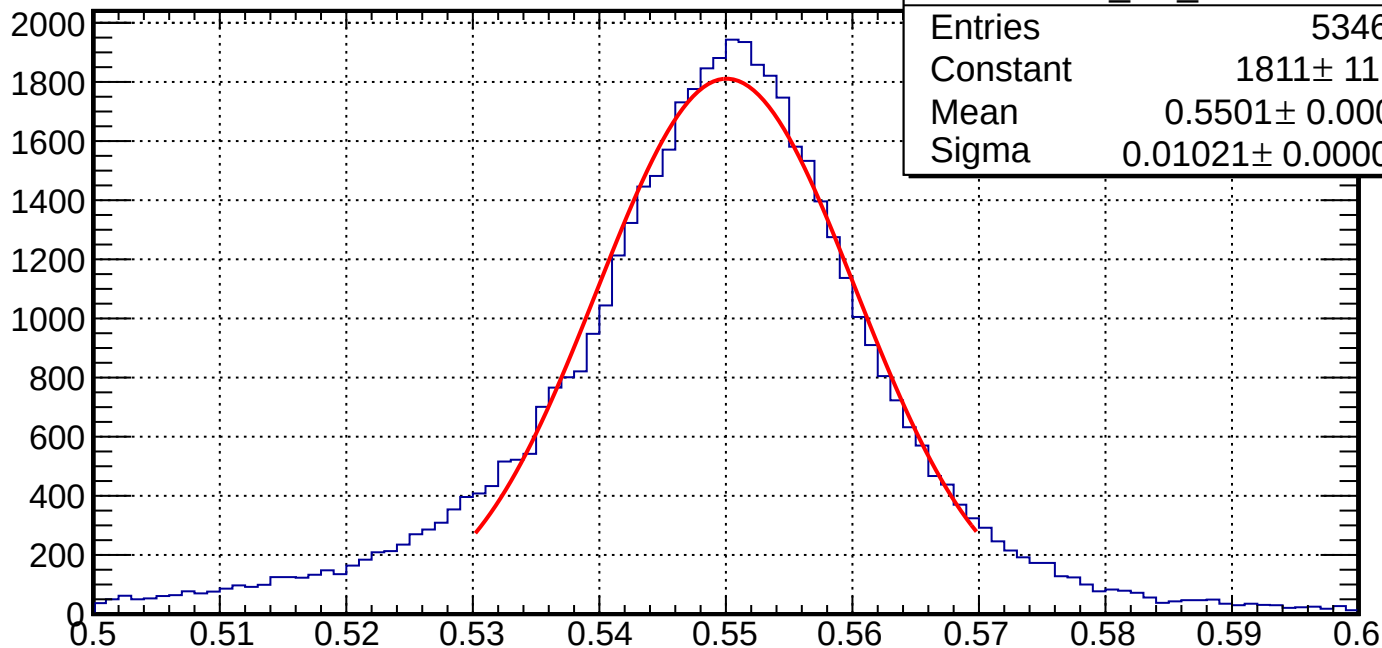
η in the MM, No Eloss corr. - Data



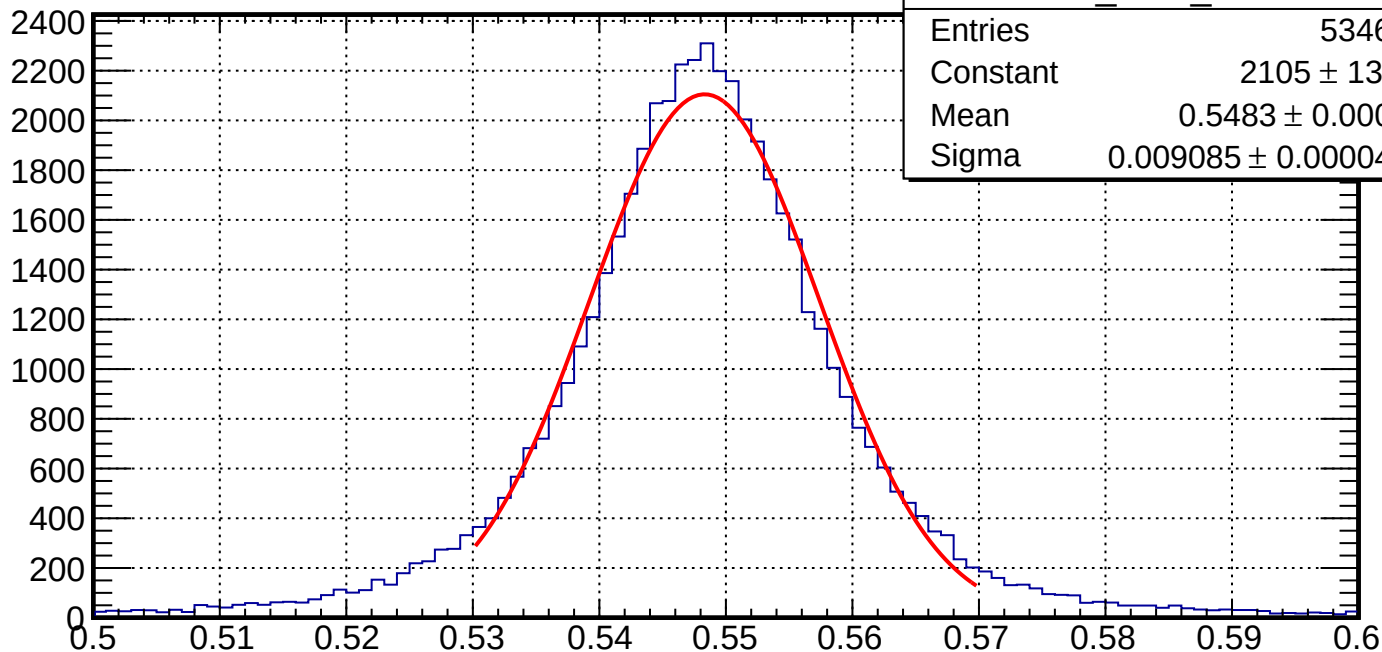
η in the MM with Eloss applied- Data



η in the MM, No Eloss corr. - MC



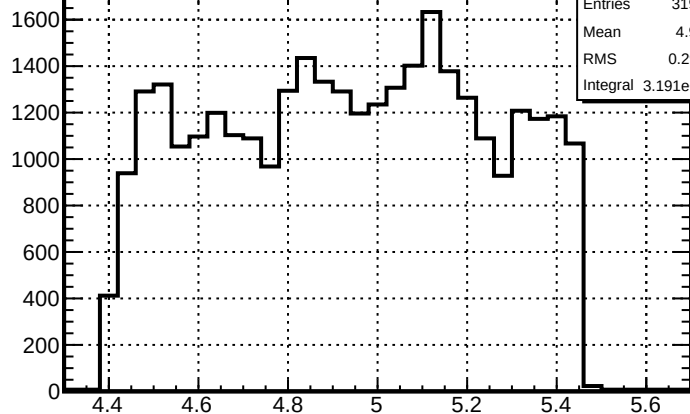
η in the MM with Eloss applied- MC



Beam Profile For Selected ϕ - η Events

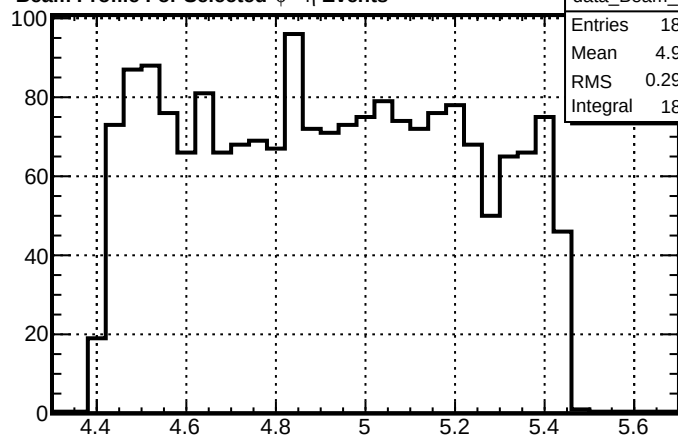
MC_Beam_40

Entries	31913
Mean	4.938
RMS	0.2969
Integral	3.191e+04

Beam Profile For Selected ϕ - η Events

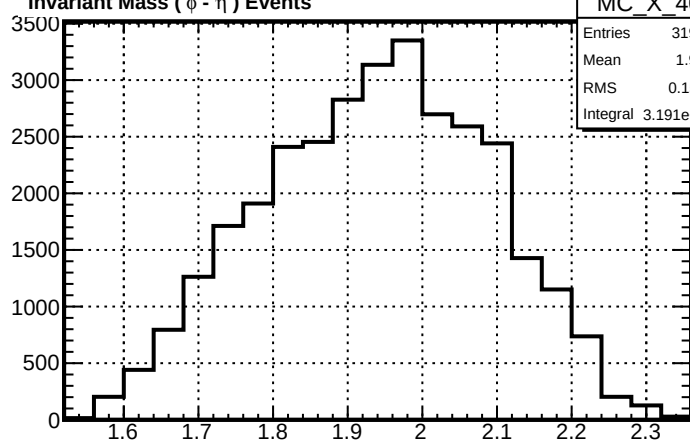
data_Beam_40

Entries	1897
Mean	4.915
RMS	0.2989
Integral	1897

Invariant Mass (ϕ - η) Events

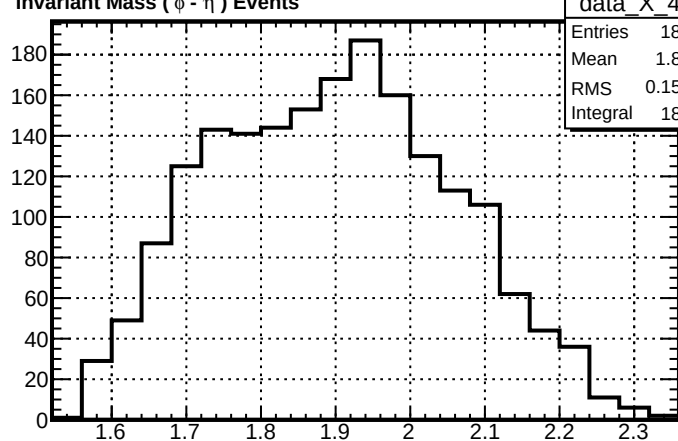
MC_X_40

Entries	31913
Mean	1.938
RMS	0.1508
Integral	3.191e+04

Invariant Mass (ϕ - η) Events

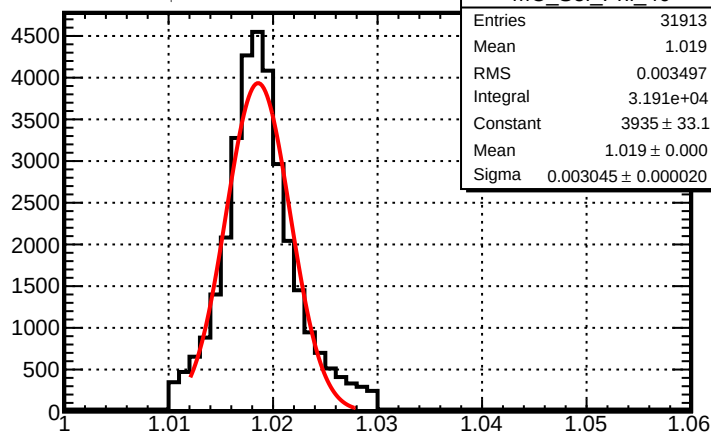
data_X_40

Entries	1897
Mean	1.897
RMS	0.1584
Integral	1897

Invariant Mass ϕ

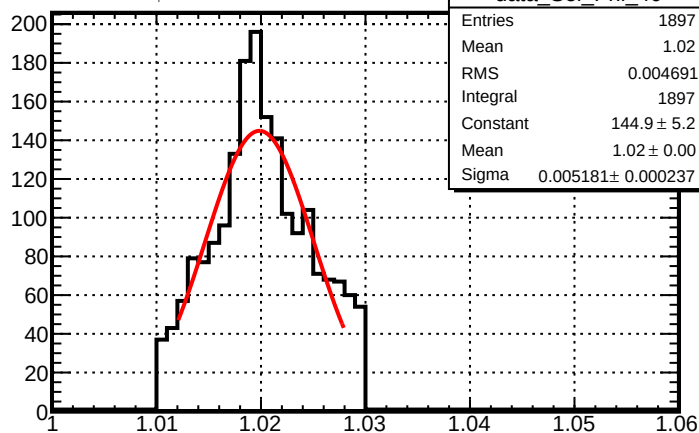
MC Sel Phi 40

Entries	31913
Mean	1.019
RMS	0.003497
Integral	3.191e+04
Constant	3935 ± 33.1
Mean	1.019 ± 0.000
Sigma	0.003045 ± 0.000020

Invariant Mass ϕ

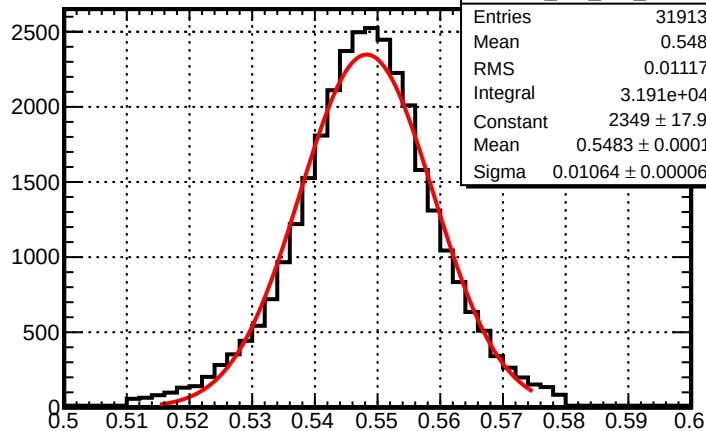
data Sel Phi 40

Entries	1897
Mean	1.02
RMS	0.004691
Integral	1897
Constant	144.9 ± 5.2
Mean	1.02 ± 0.00
Sigma	0.005181 ± 0.000237

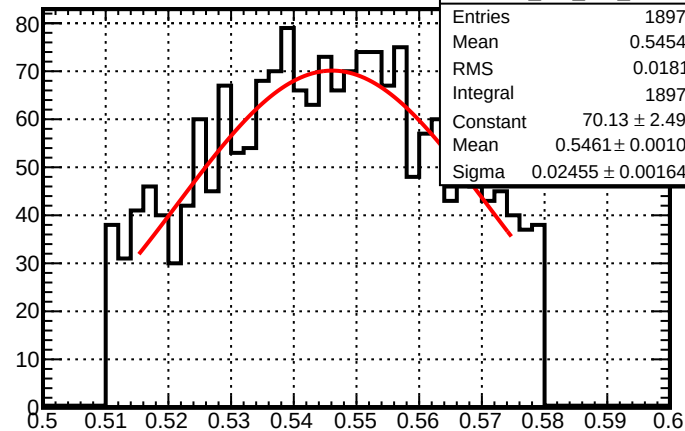


Invariant Mass η

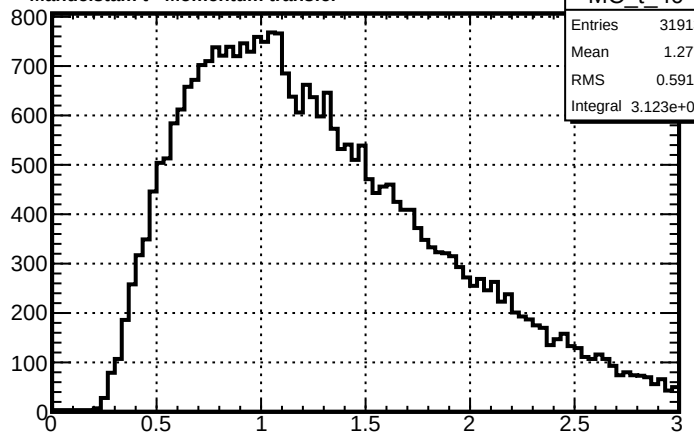
MC_Sel_Eta_40	
Entries	31913
Mean	0.548
RMS	0.01117
Integral	3.191e+04
Constant	2349 $\pm$ 17.9
Mean	0.5483 $\pm$ 0.0001
Sigma	0.01064 $\pm$ 0.00006

Invariant Mass η

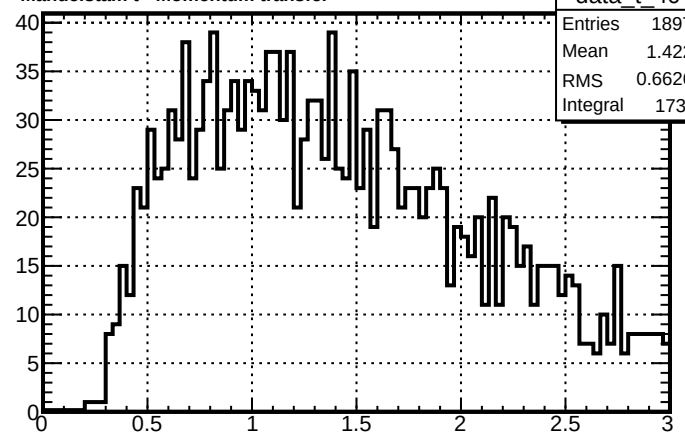
data_Sel_Eta_40	
Entries	1897
Mean	0.5454
RMS	0.0181
Integral	1897
Constant	70.13 $\pm$ 2.49
Mean	0.5461 $\pm$ 0.0010
Sigma	0.02455 $\pm$ 0.00164

Mandelstam t - Momentum transfer

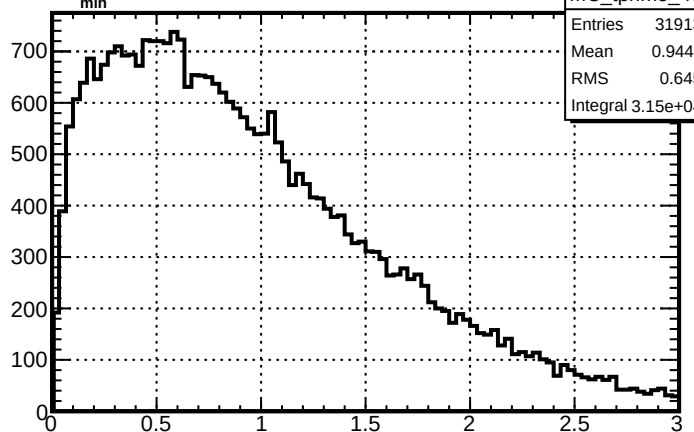
MC_t_40	
Entries	31913
Mean	1.277
RMS	0.5919
Integral	3.123e+04

Mandelstam t - Momentum transfer

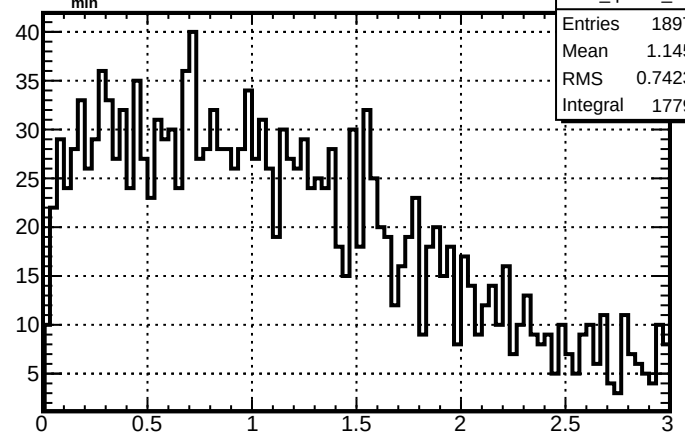
data_t_40	
Entries	1897
Mean	1.422
RMS	0.6626
Integral	1731

 $t' = t - t_{\min}$

MC_tprime_40	
Entries	31913
Mean	0.9445
RMS	0.645
Integral	3.15e+04

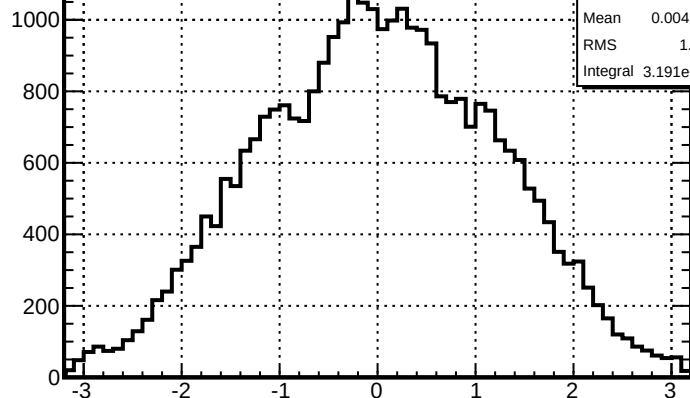
 $t' = t - t_{\min}$

data_tprime_40	
Entries	1897
Mean	1.145
RMS	0.7423
Integral	1779

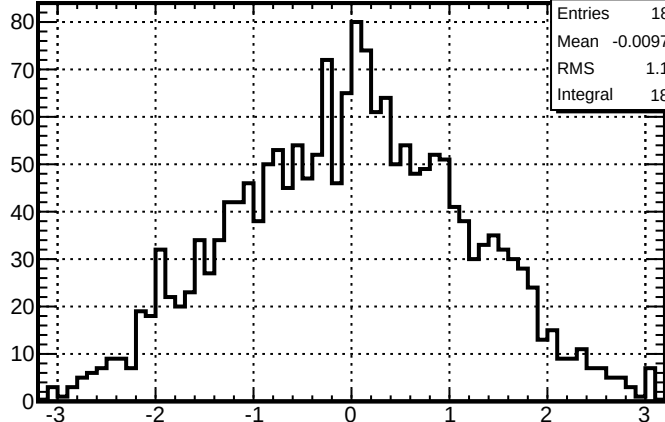


GJ Φ distribution with ϕ meson as the analyser

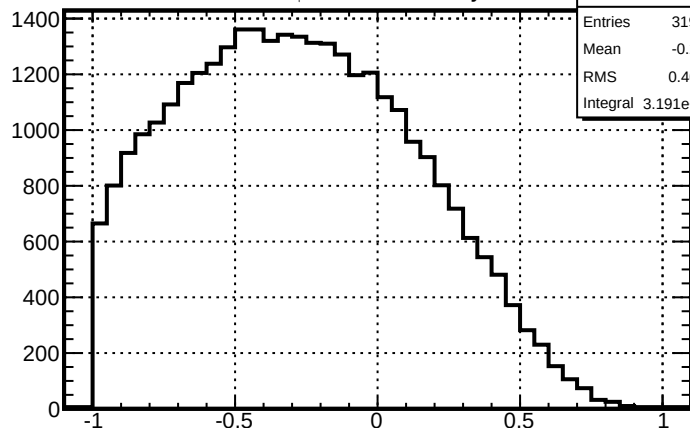
MC_Phi_Phi_GJ_40
Entries 31913
Mean 0.004232
RMS 1.201
Integral 3.191e+04

GJ Φ distribution with ϕ meson as the analyser

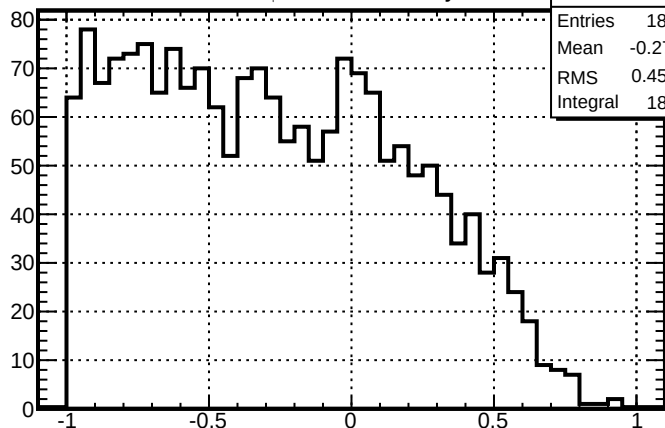
data_Phi_Phi_GJ_40
Entries 1897
Mean -0.009779
RMS 1.178
Integral 1897

GJ Costheta distribution with ϕ meson as the analyser

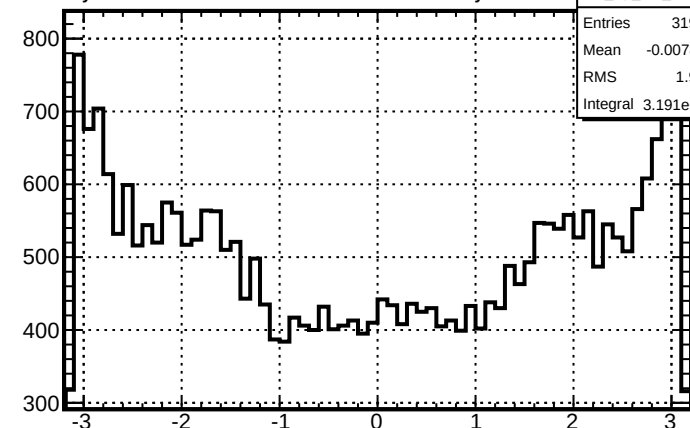
MC_Phi_Costheta_GJ_40
Entries 31913
Mean -0.274
RMS 0.4028
Integral 3.191e+04

GJ Costheta distribution with ϕ meson as the analyser

data_Phi_Costheta_GJ_40
Entries 1897
Mean -0.2711
RMS 0.4555
Integral 1897

Helicity Frame Φ distribution with K^+ meson as the analyser

MC_Kp_Phi_HF_40
Entries 31913
Mean -0.007832
RMS 1.955
Integral 3.191e+04

Helicity Frame Φ distribution with K^+ meson as the analyser

data_Kp_Phi_HF_40
Entries 1897
Mean -0.04489
RMS 1.991
Integral 1897

