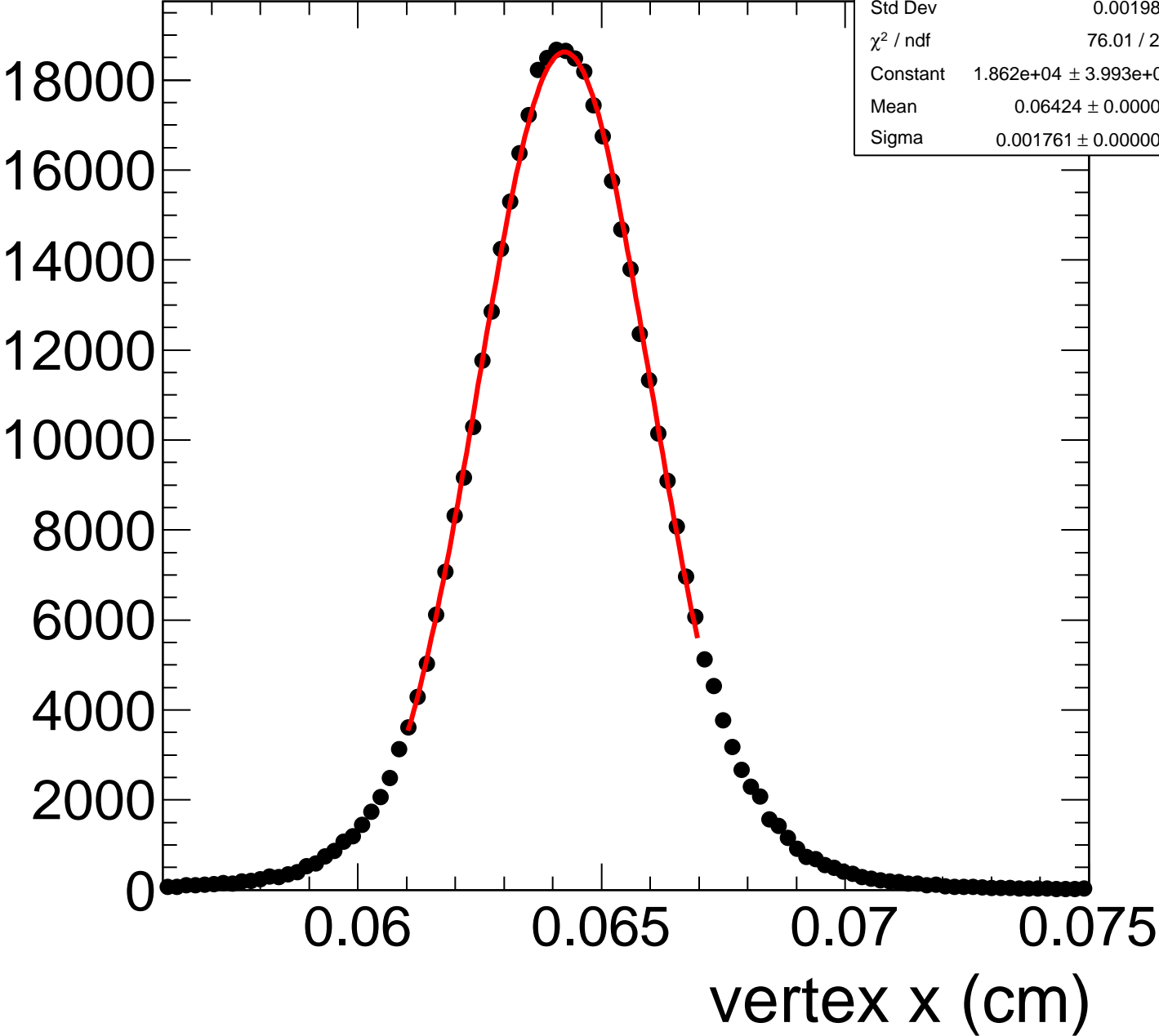


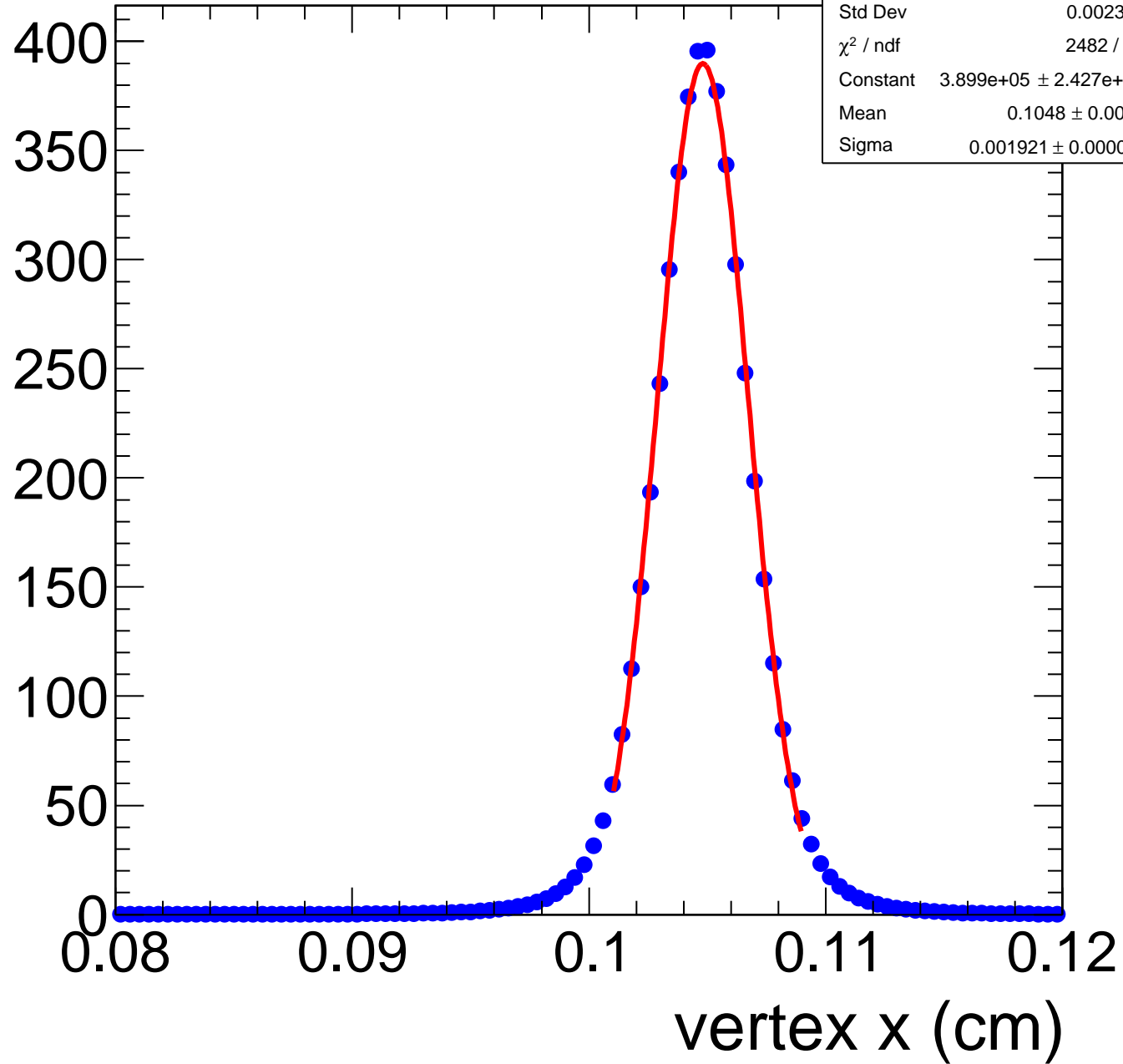
Data Vertex X

hdt_x	
Entries	448736
Mean	0.06428
Std Dev	0.001988
χ^2 / ndf	76.01 / 29
Constant	$1.862\text{e}+04 \pm 3.993\text{e}+01$
Mean	0.06424 ± 0.00000
Sigma	0.001761 ± 0.000004

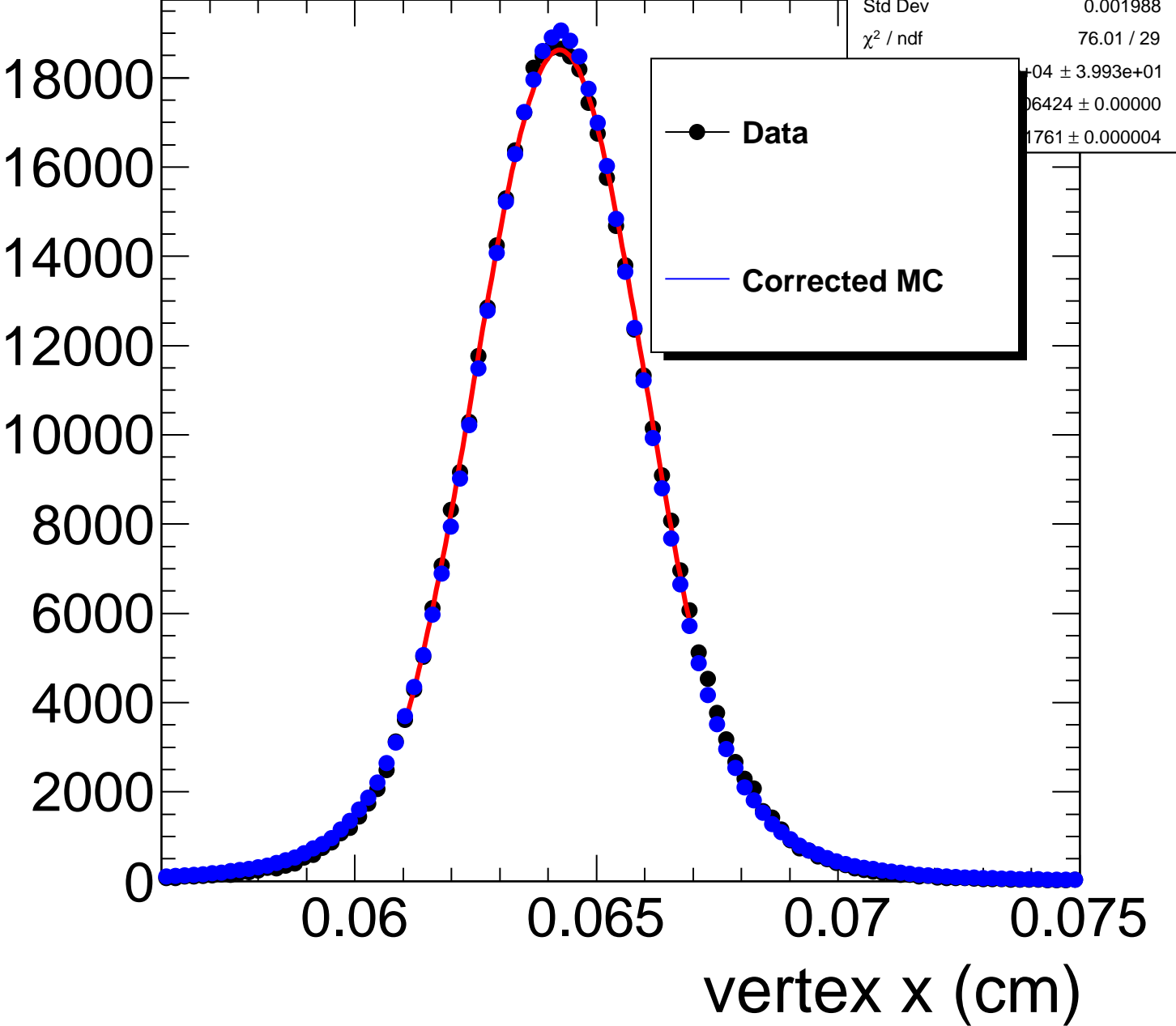


MC Vertex X

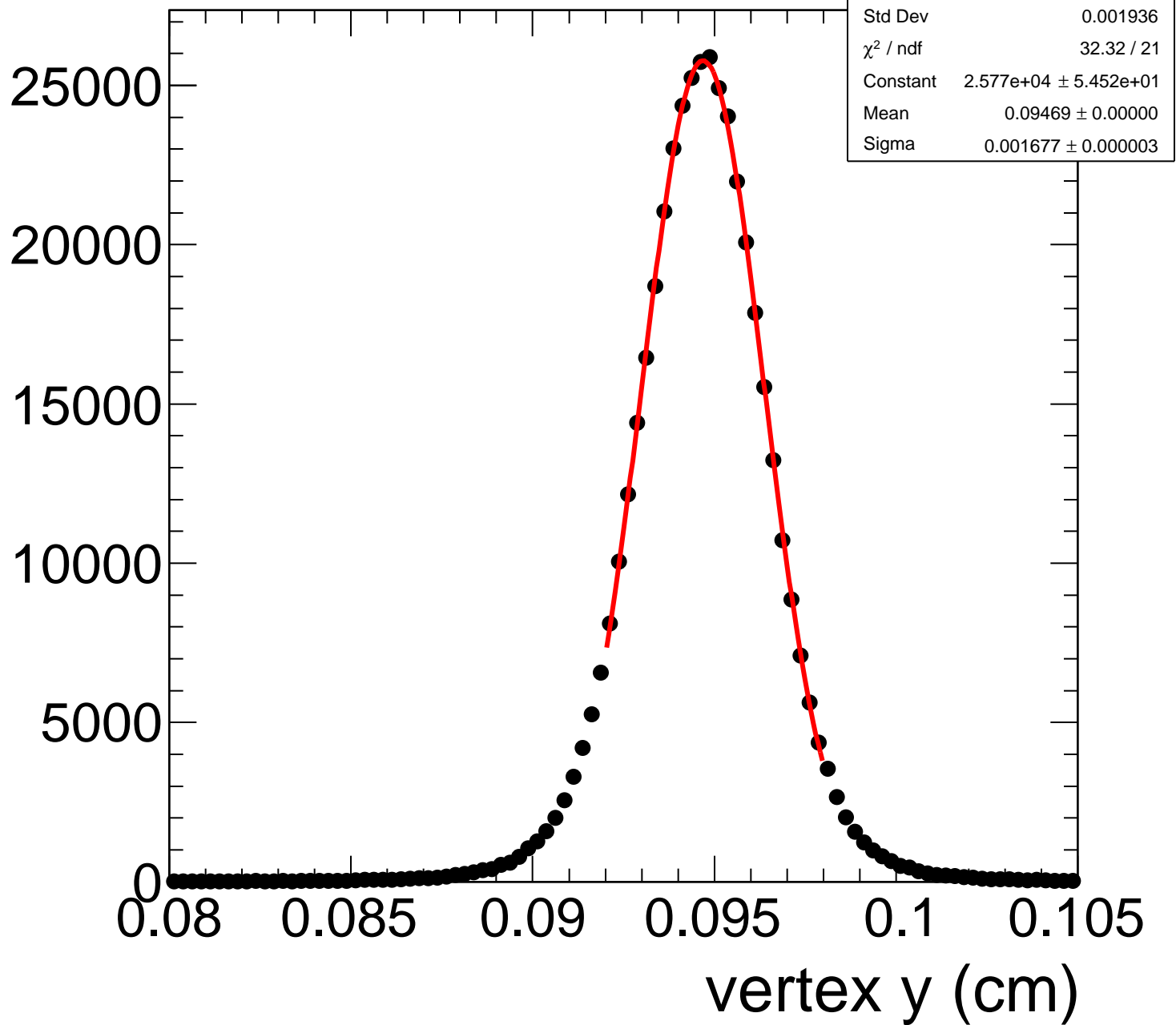
$\times 10^9$



Data Vertex X

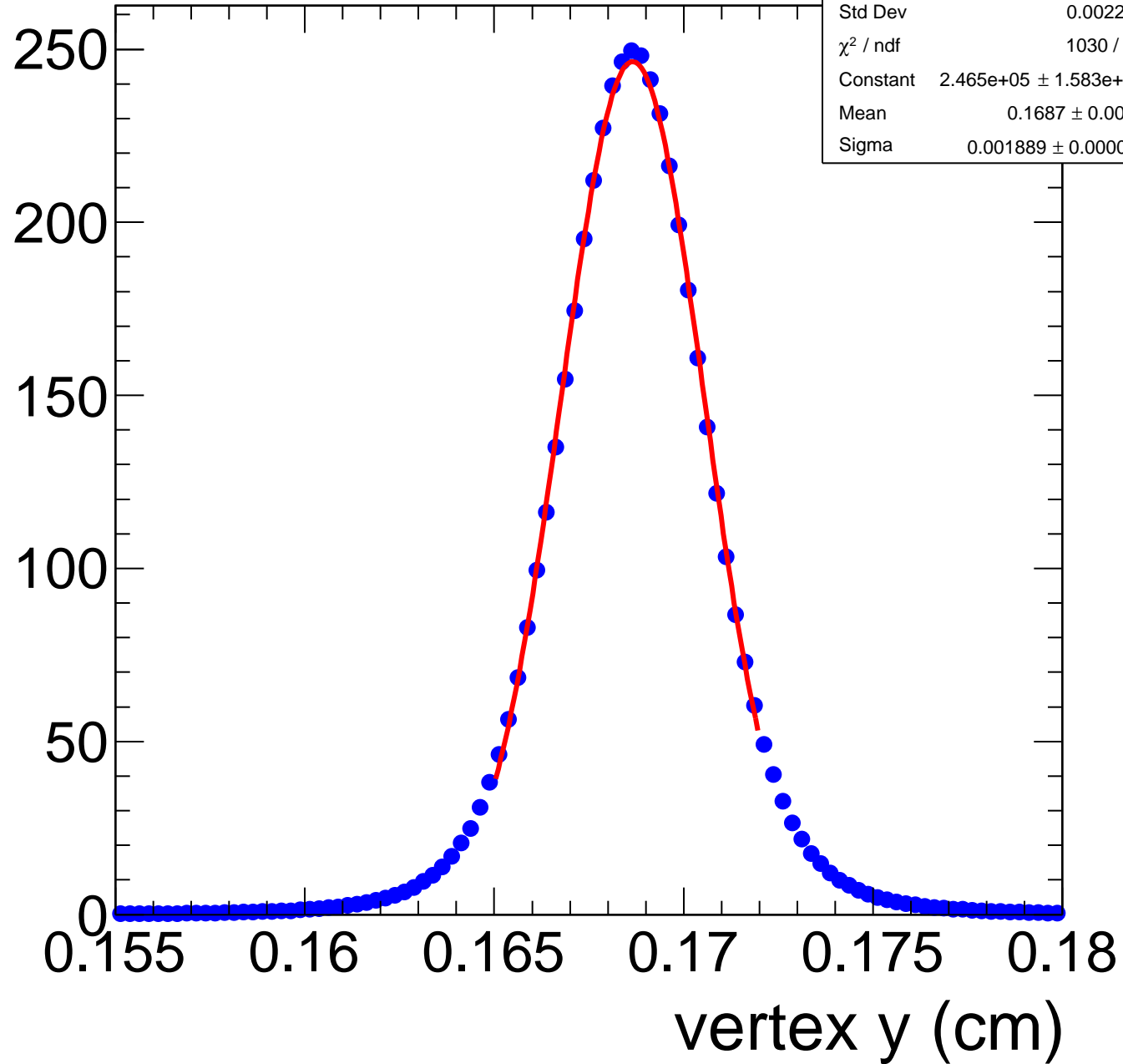


Data Vertex Y

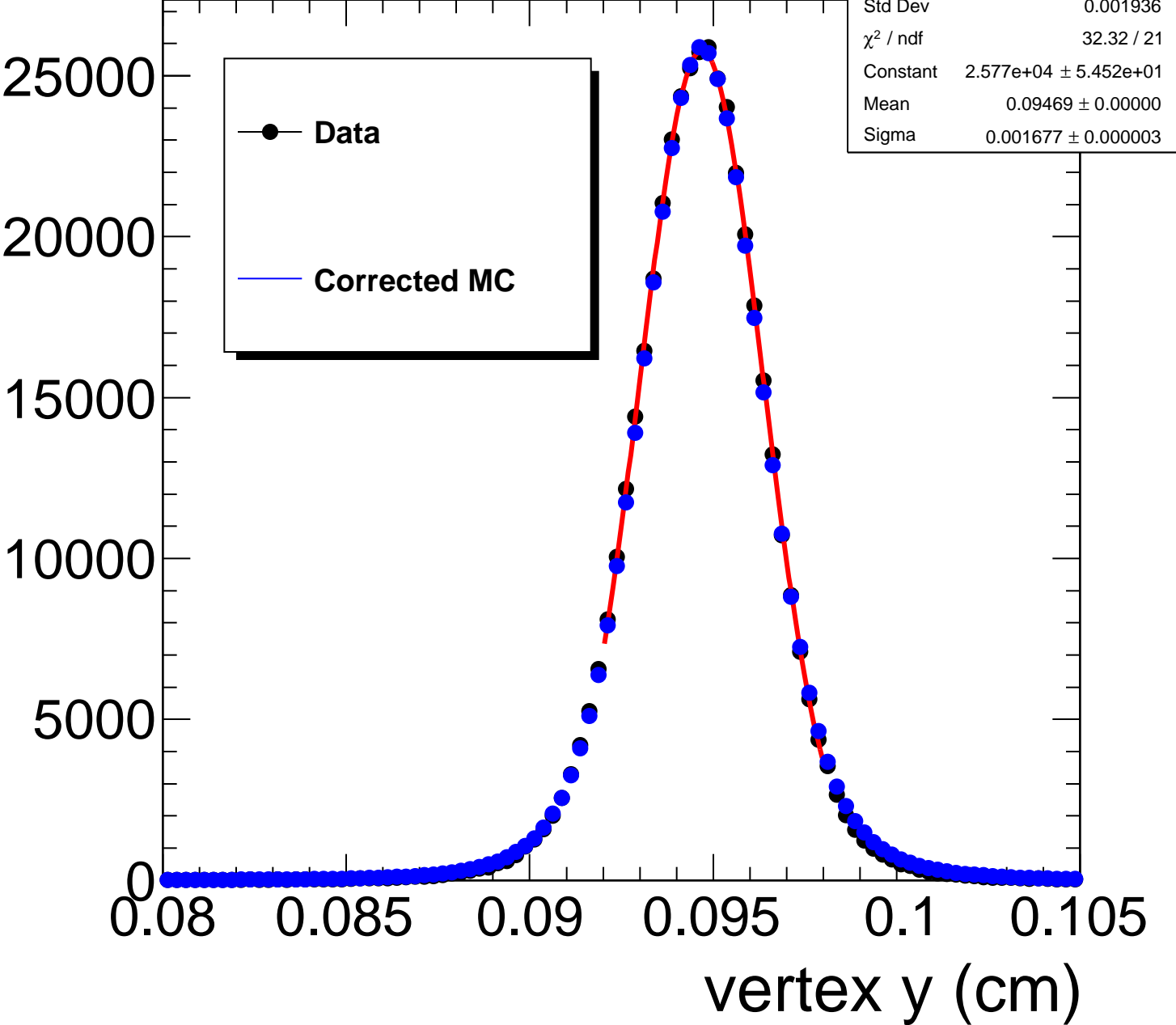


MC Vertex Y

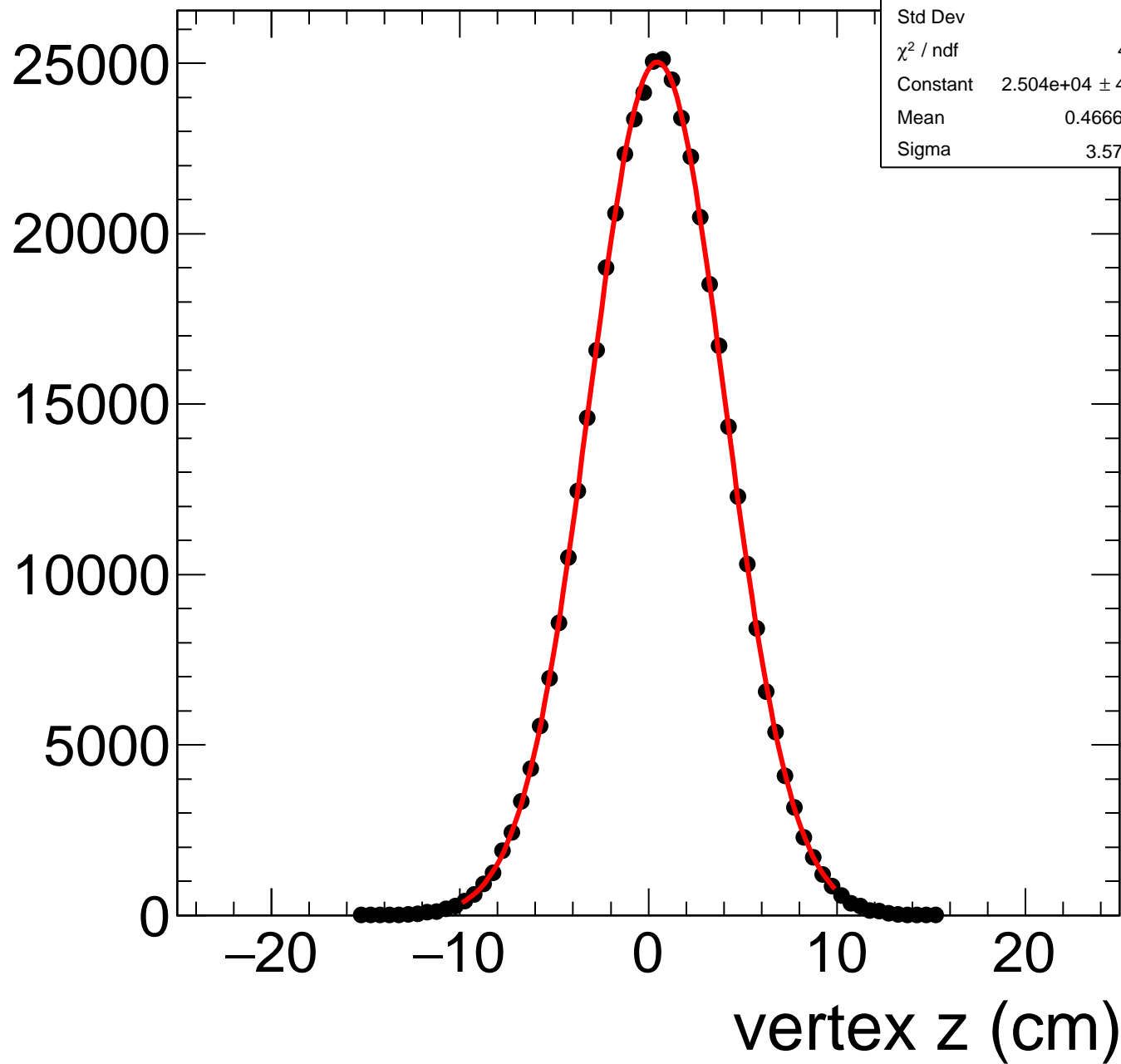
$\times 10^9$



Data Vertex Y



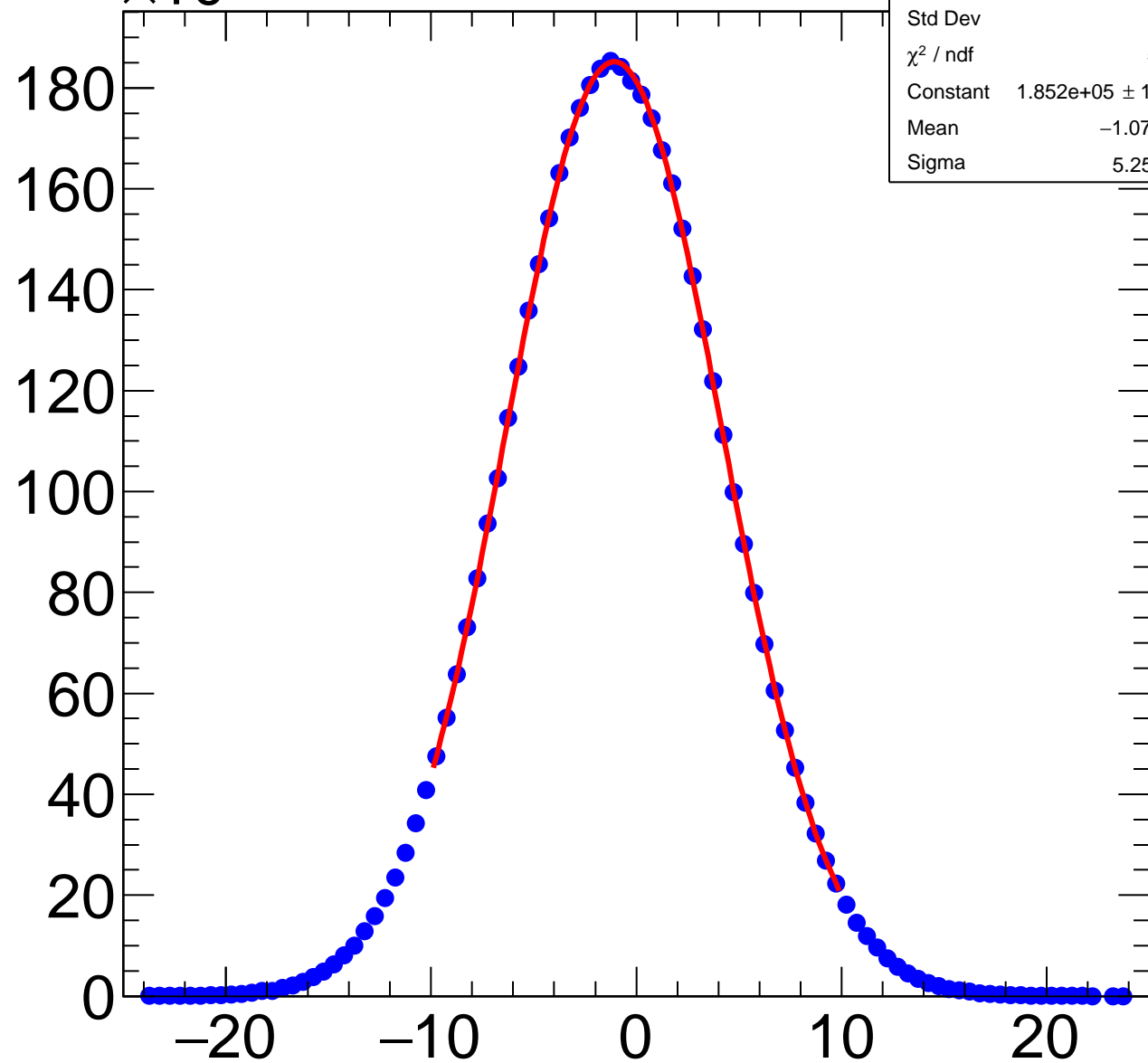
Data Vertex Z



hdt_z	
Entries	448736
Mean	0.4651
Std Dev	3.567
χ^2 / ndf	42.79 / 37
Constant	$2.504\text{e}+04 \pm 4.694\text{e}+01$
Mean	0.4666 ± 0.0055
Sigma	3.575 ± 0.004

MC Vertex Z

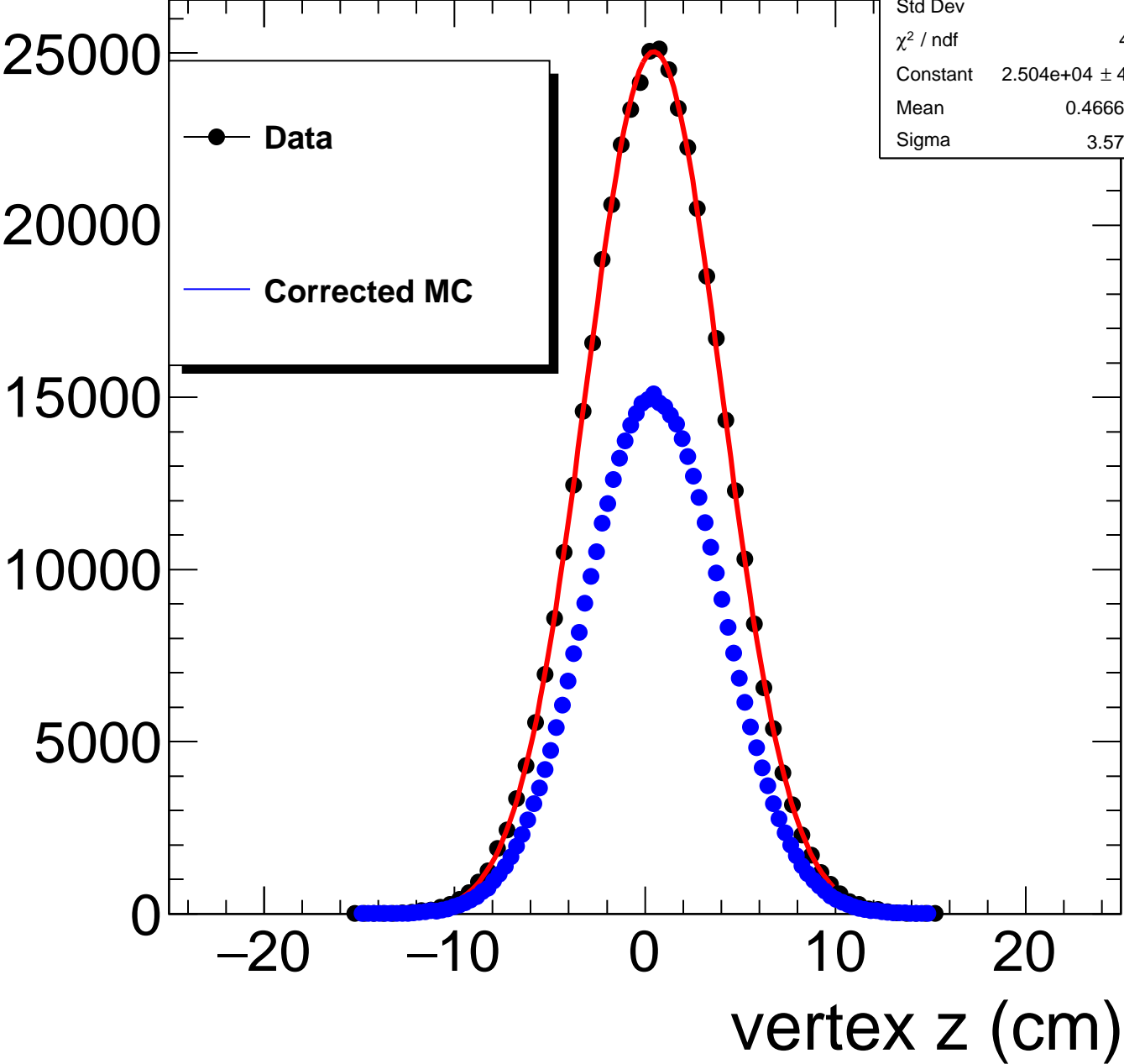
$\times 10^9$



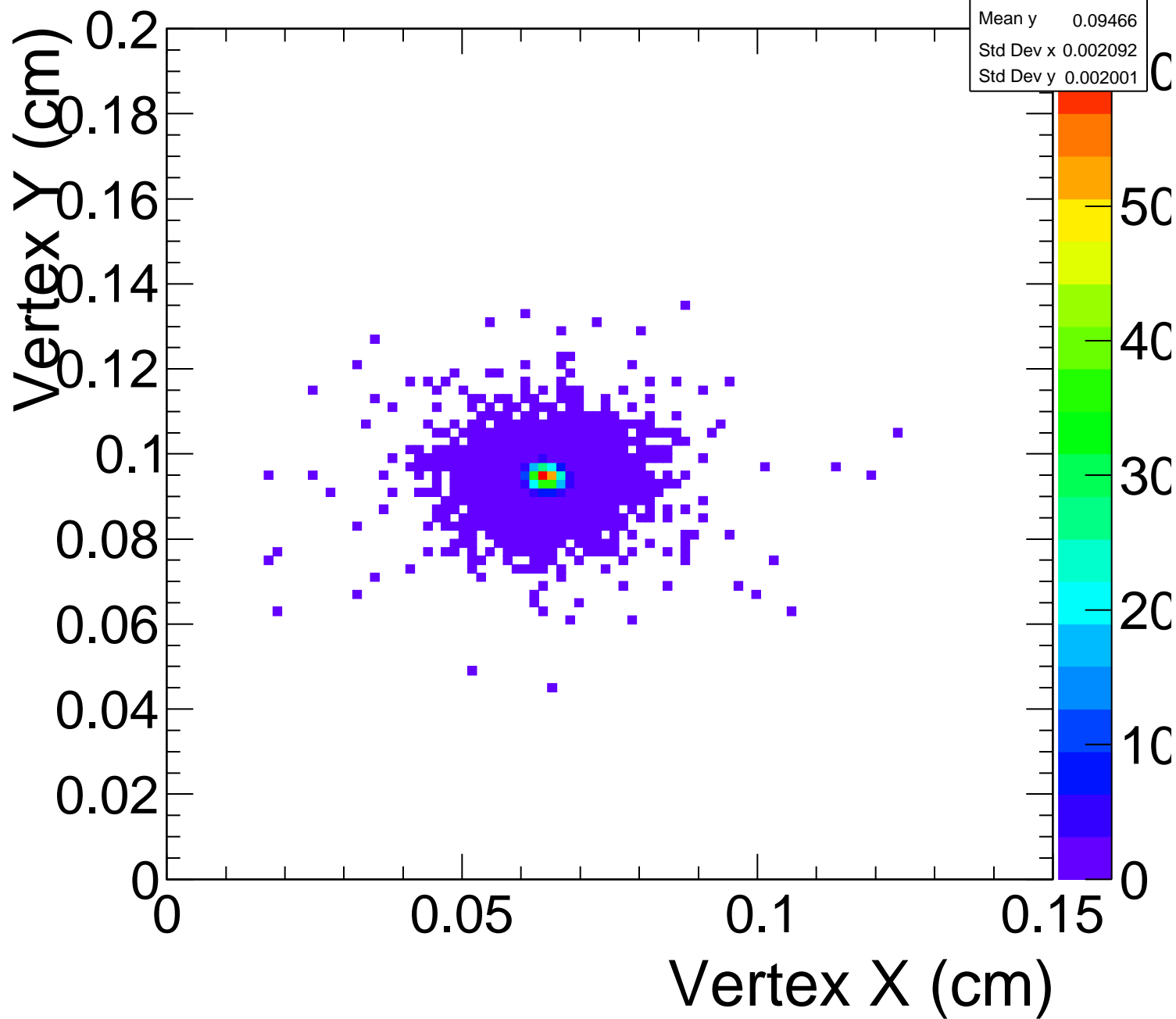
hmc_z	
Entries	4880463
Mean	-1.079
Std Dev	5.252
χ^2 / ndf	58.89 / 37
Constant	1.852e+05 \pm 1.143e+02
Mean	-1.079 \pm 0.003
Sigma	5.257 \pm 0.003

vertex z (cm)

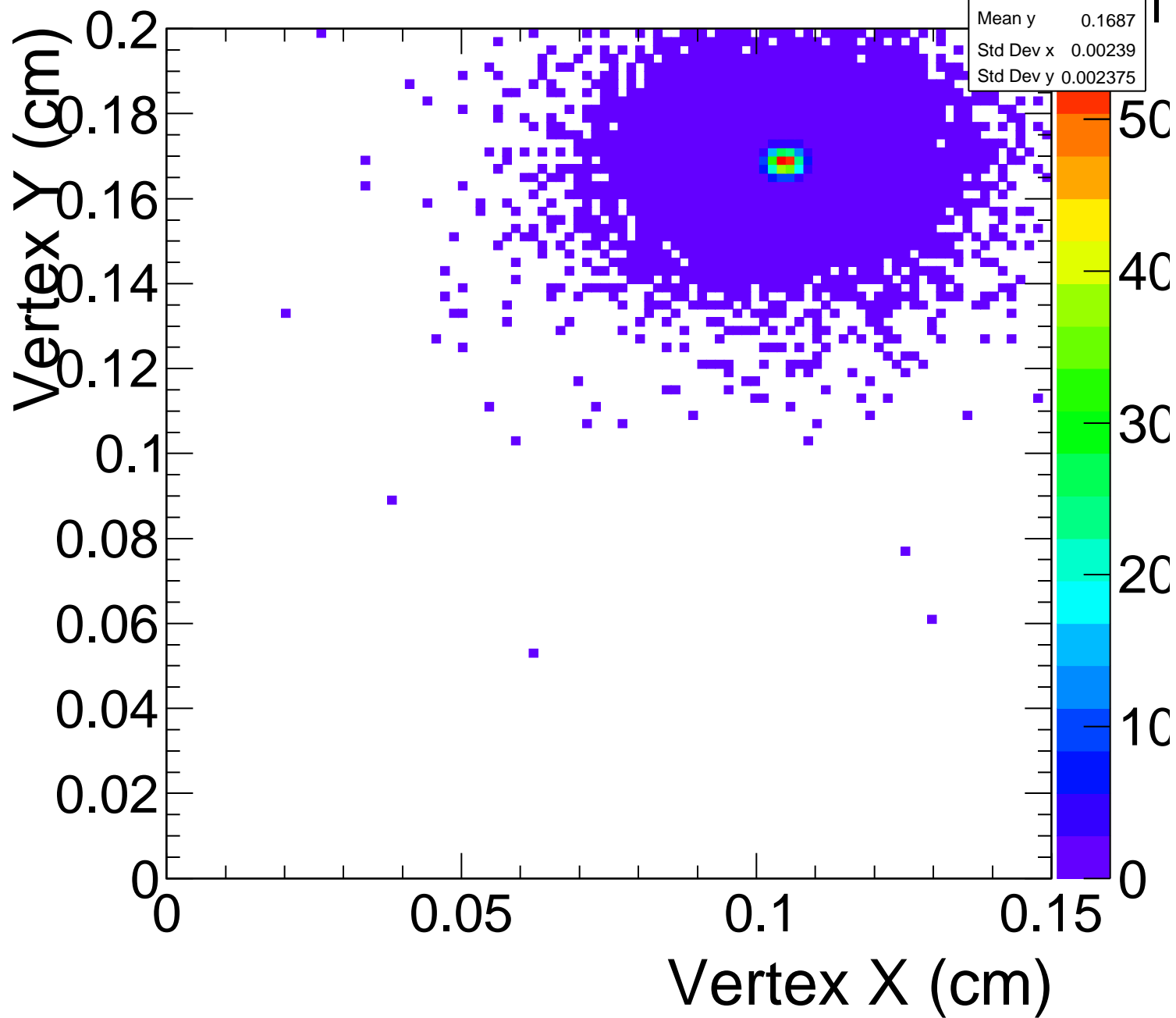
Data Vertex Z



Vertex X-Y Data



Vertex X-Y MC



Vertex X-Y Data and MC

