This is the px distribution
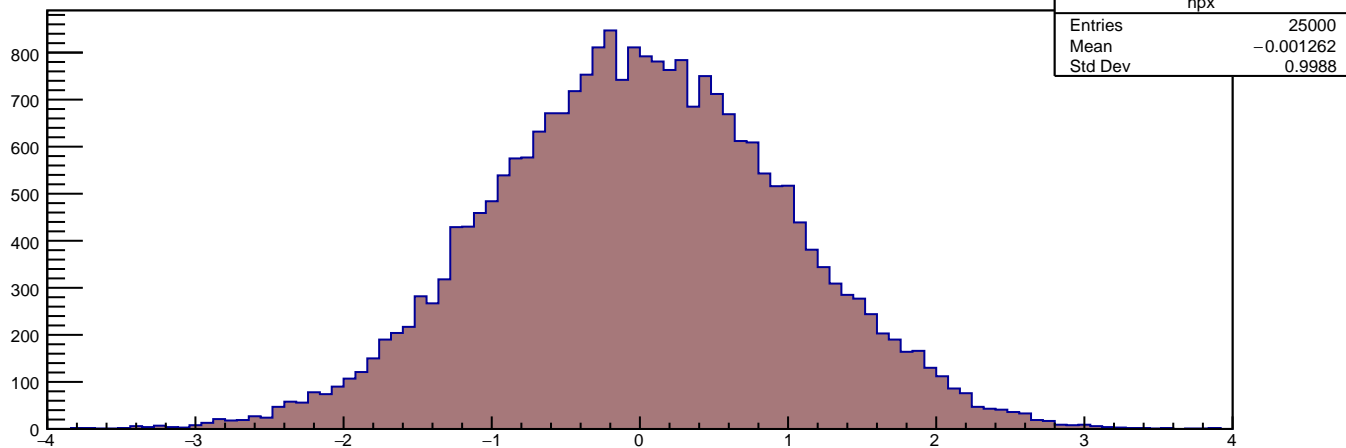

hpx	
Entries	25000
Mean	−0.001262
Std Dev	0.9988

py vs px

hpxpy	
Entries	25000
Mean x	−0.001262
Mean y	−0.01138
Std Dev x	0.9988
Std Dev y	0.9992