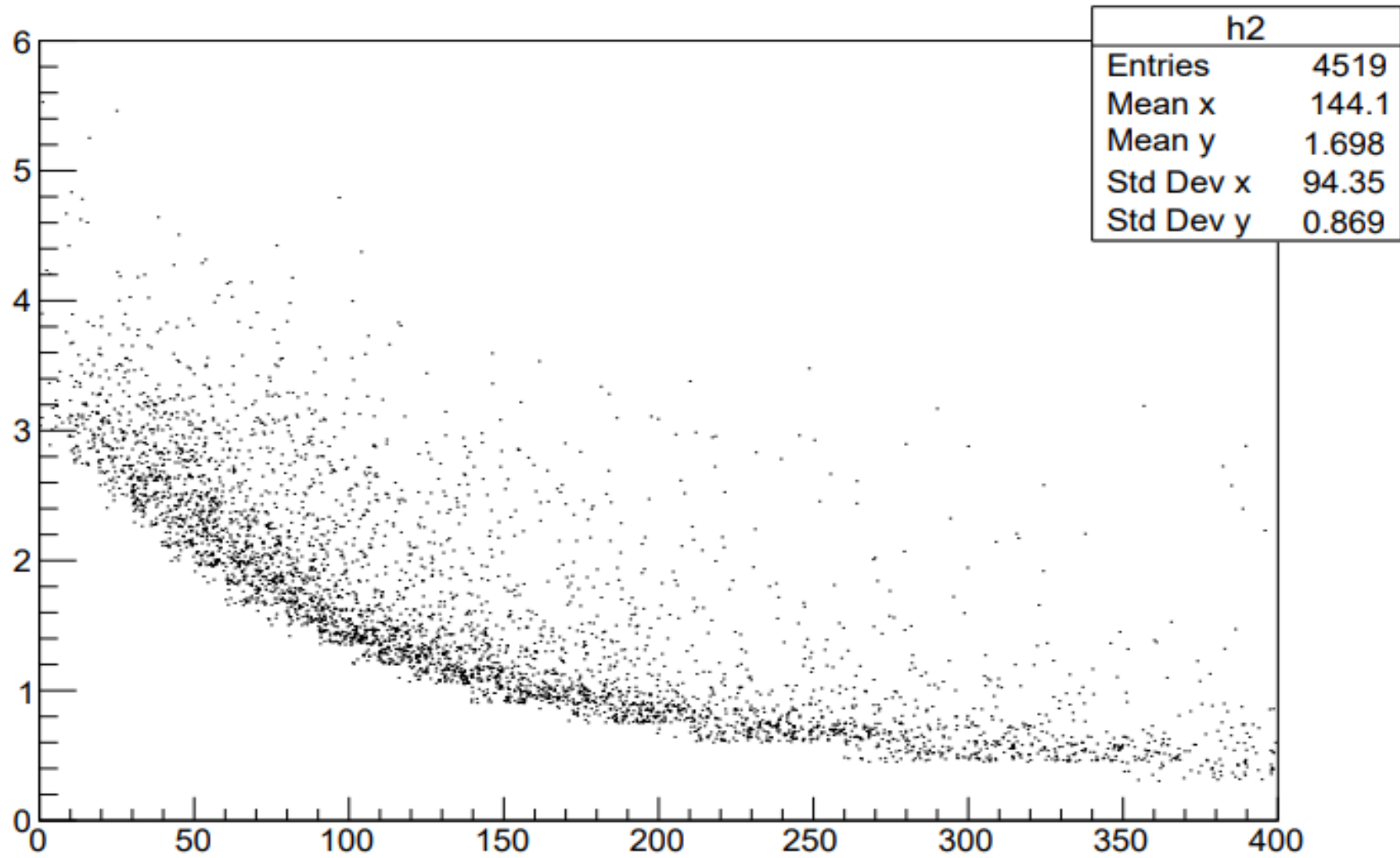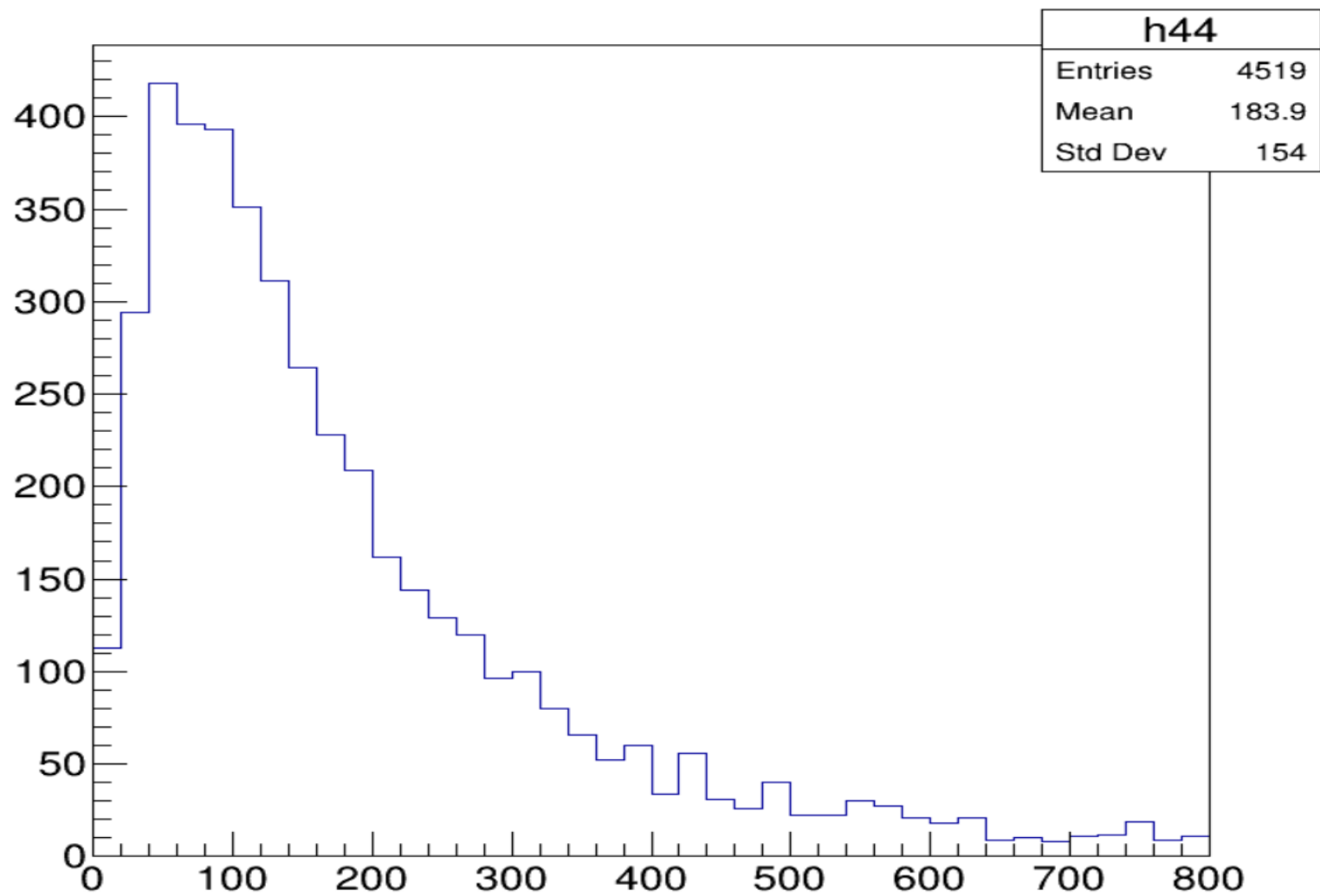# Looking for Parent W's

6TeV- WWnunu

- Processed data on KTjet, and multiple N2- VLC algorithms including R05, R07, R10, R12, and R15.
- We did this by setting our code to look for Parent W's +/-
→Looked to see how W decayed
→Performed sanity check to make sure parent is a W and both particles came from the same mother
→Checked whether it was lepton-lepton, hadron-hadron, or lepton-hadron
→Found Mass, PT, Eta, Phi for W1 and W2
→Looked for jets closest in Delta-R for each W
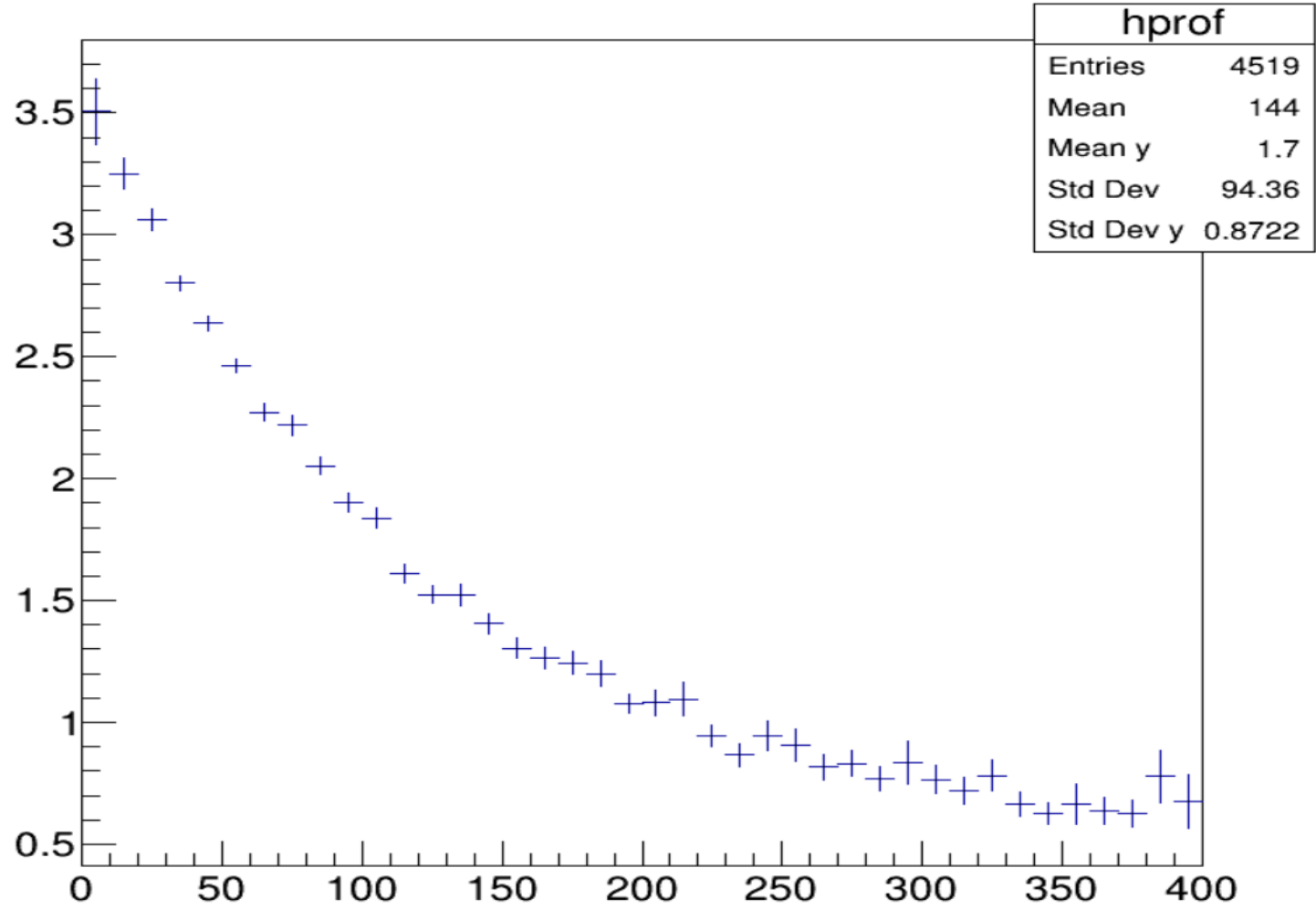→Called it a match if Delta-eta<0.2, Delta-phi<0.2, and Delta-PT/PT<0.2

dr vs pt

h2	
Entries	4519
Mean x	144.1
Mean y	1.698
Std Dev x	94.35
Std Dev y	0.869

W1 PT

h44	
Entries	4519
Mean	183.9
Std Dev	154

Profile of dr versus pt

hprof	
Entries	4519
Mean	144
Mean y	1.7
Std Dev	94.36
Std Dev y	0.8722

Efficiency