



Measuring the Higgs Self-coupling Using the Muon Collider

Kenny Jia

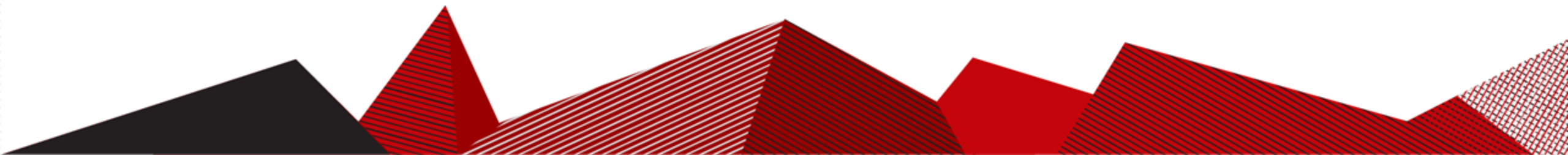
Apr 3rd, 2023





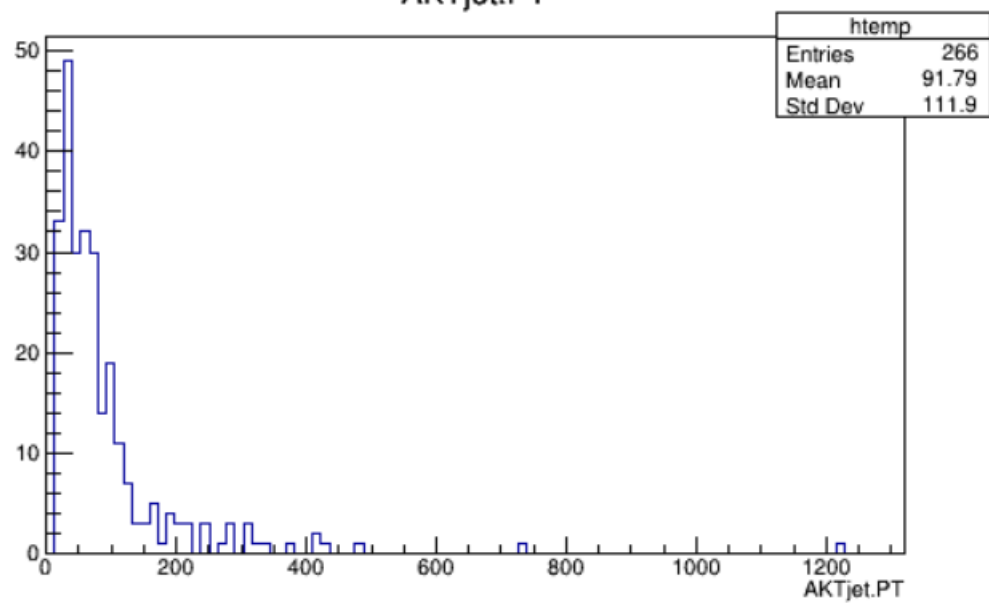
Proximity parameter setting

- EM particle (eflow photon): 0.01
- chargeHadrons (eflow tracks): 0.03
- NeutralHadrons (eflow Neutral Hadrons): 0.03

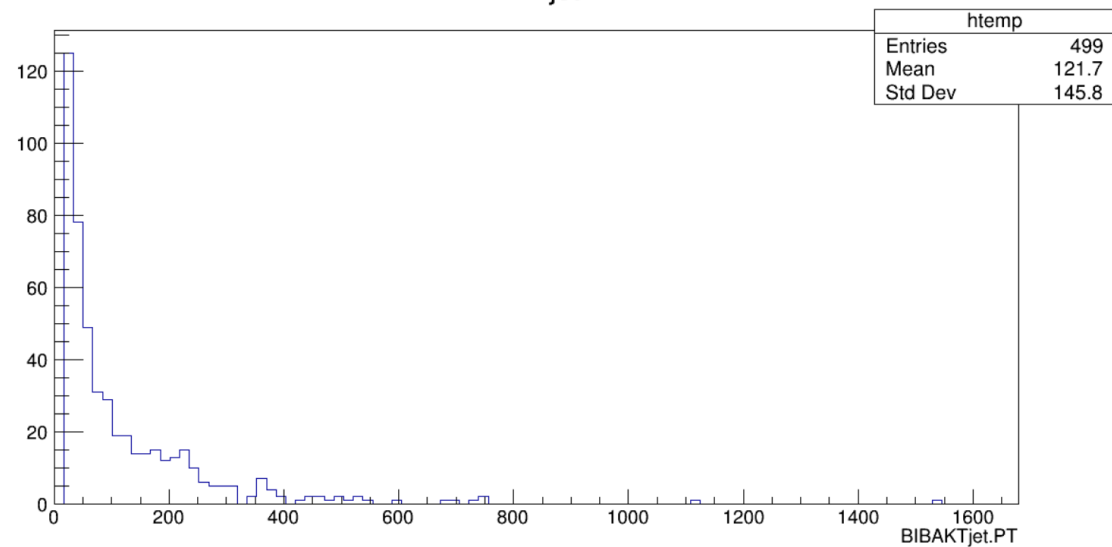




AKTjet.PT

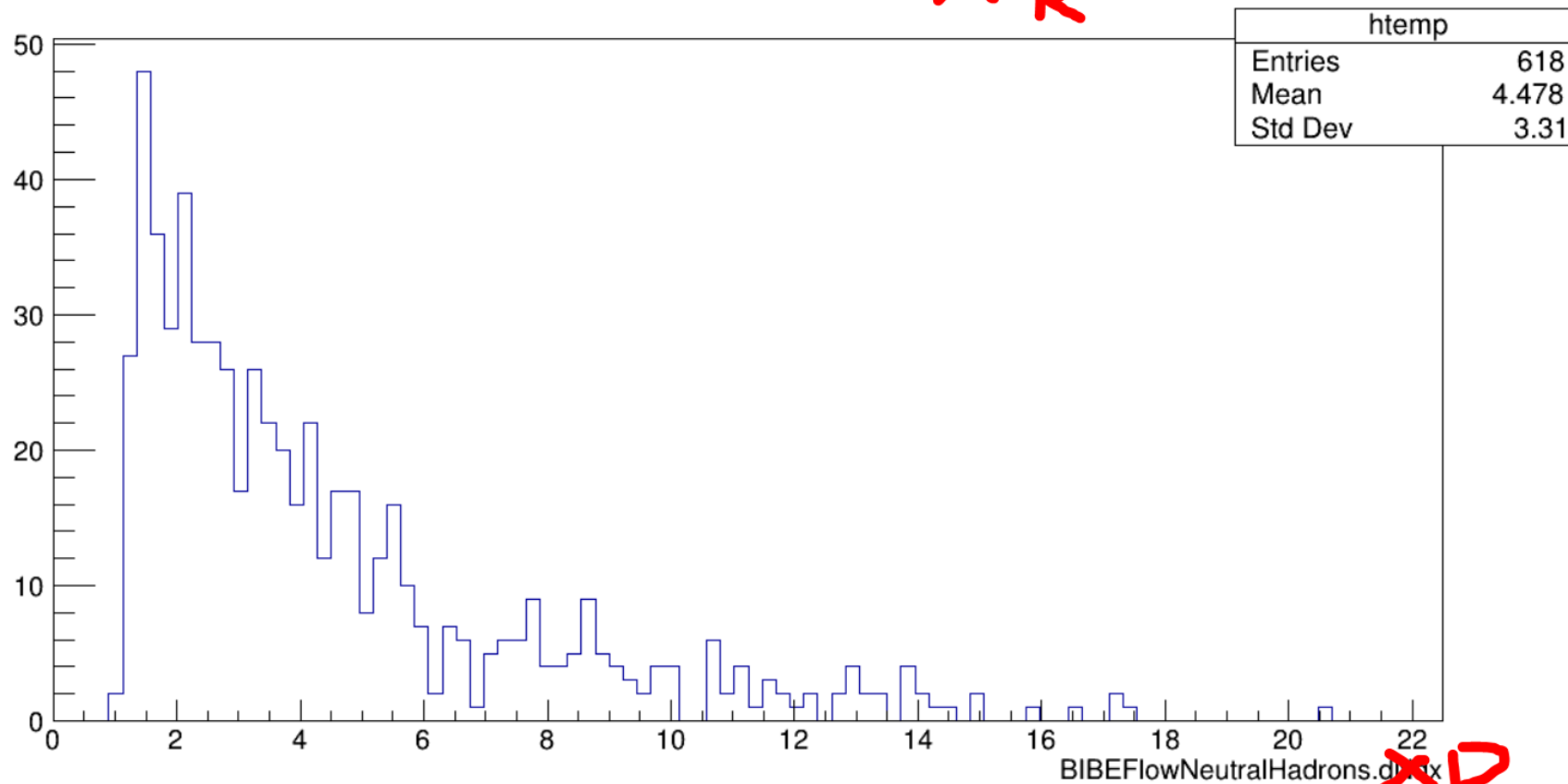


BIBAKTjet.PT





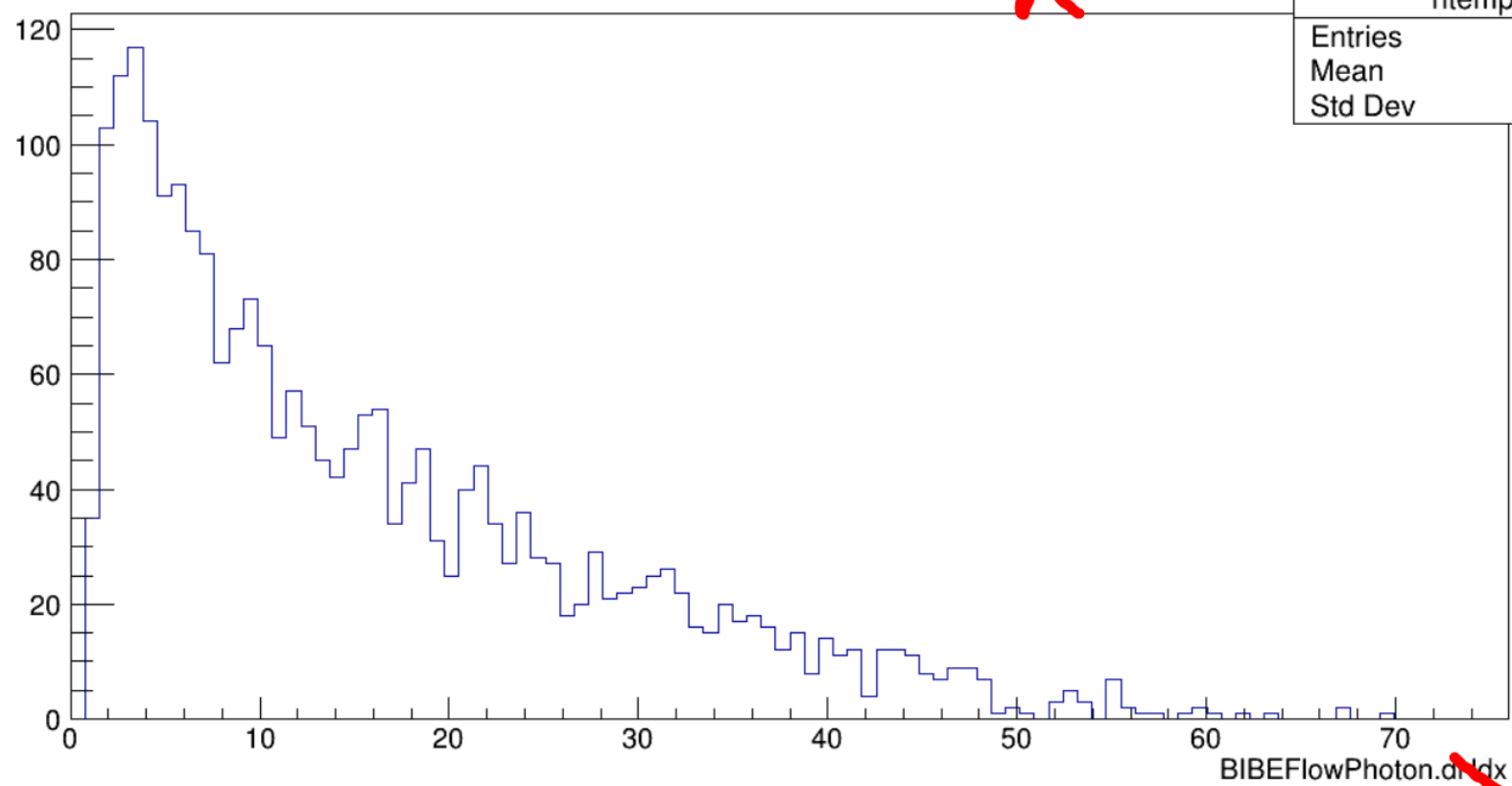
BIBEFLOWNeutralHadrons.d~~IR~~ **A**





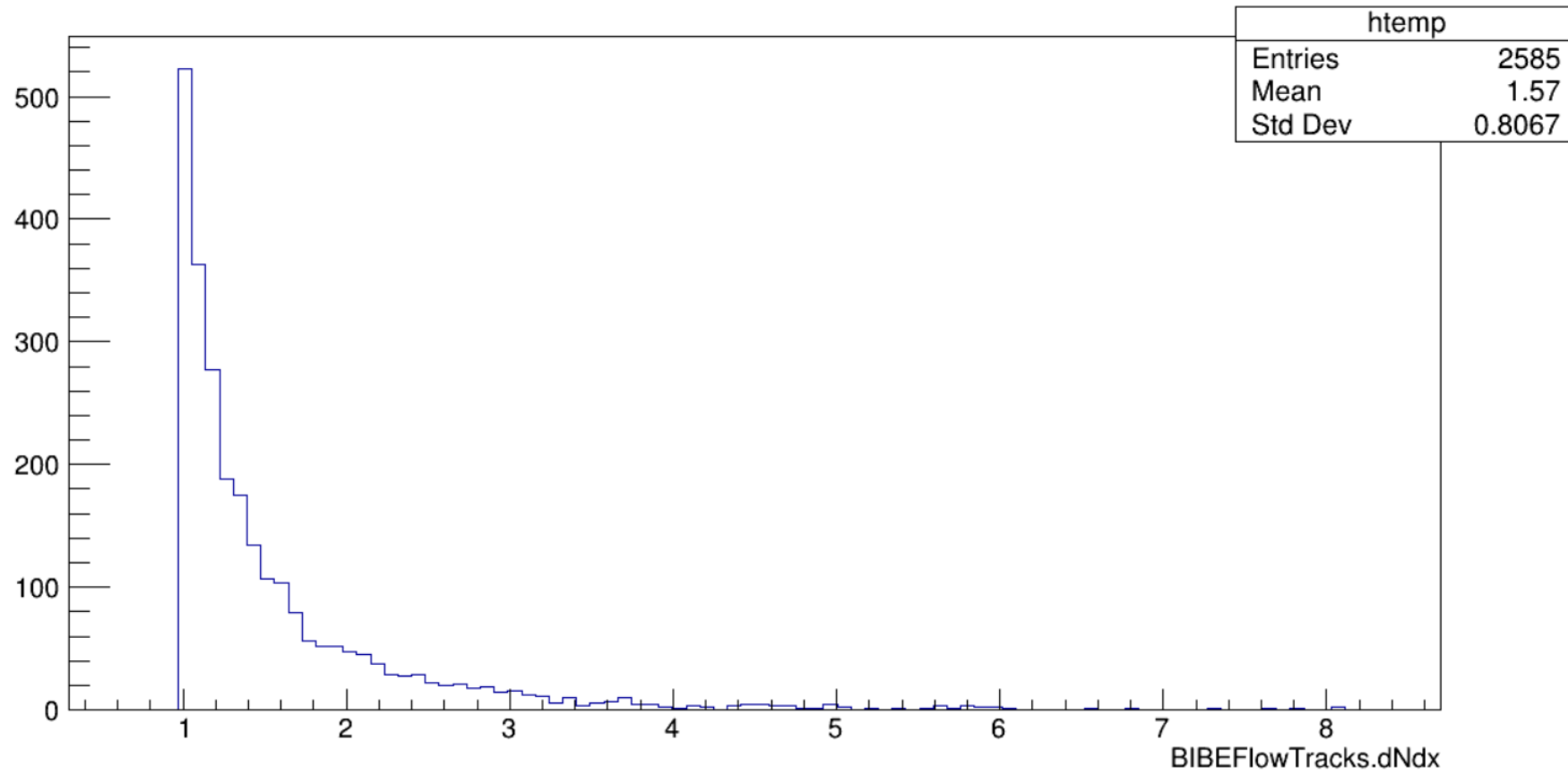
BIBEFLOWPhoton.dndx

~~NR~~





BIBEFLOWTracks.dNdx





- Taking longer time now: >3Hrs run time for 10^7 particles, 100 events
- Compare to full simulation to deciding on what proximity to use.

