



Measuring the Higgs Self-coupling Using the Muon Collider

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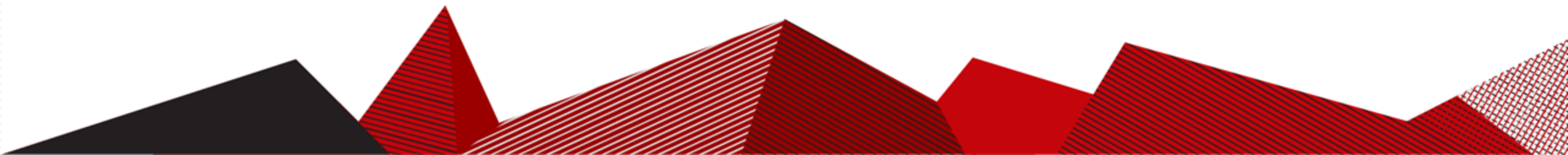
Apr 10th, 2023





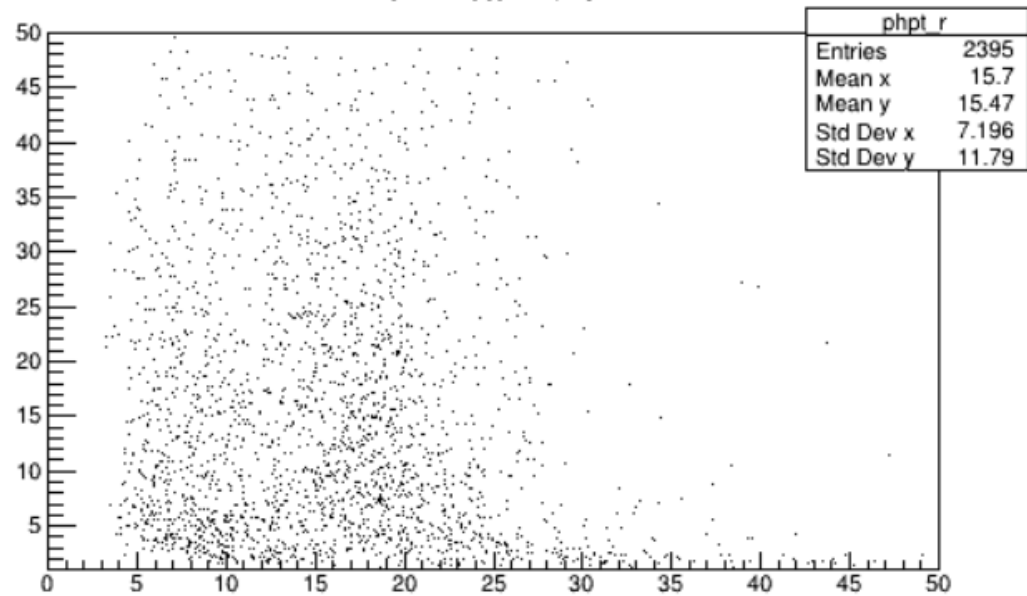
Proximity parameter setting

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

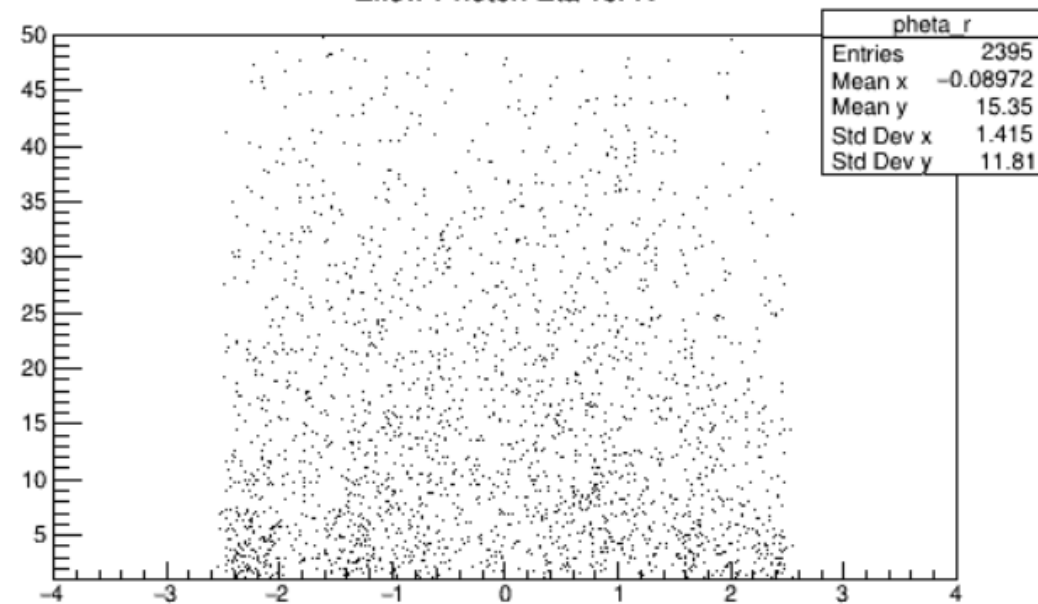


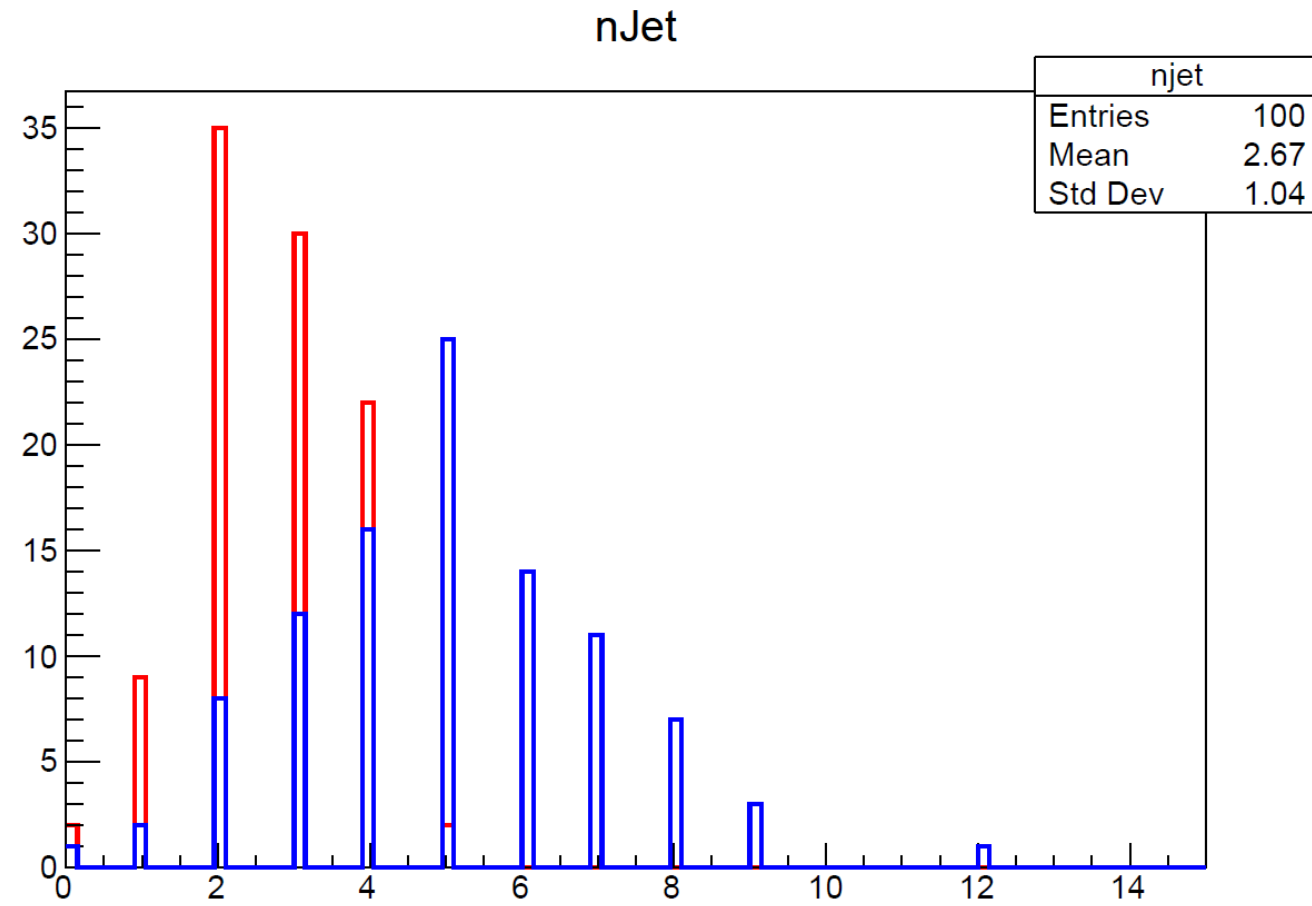


Eflow Photon Pt vs. R



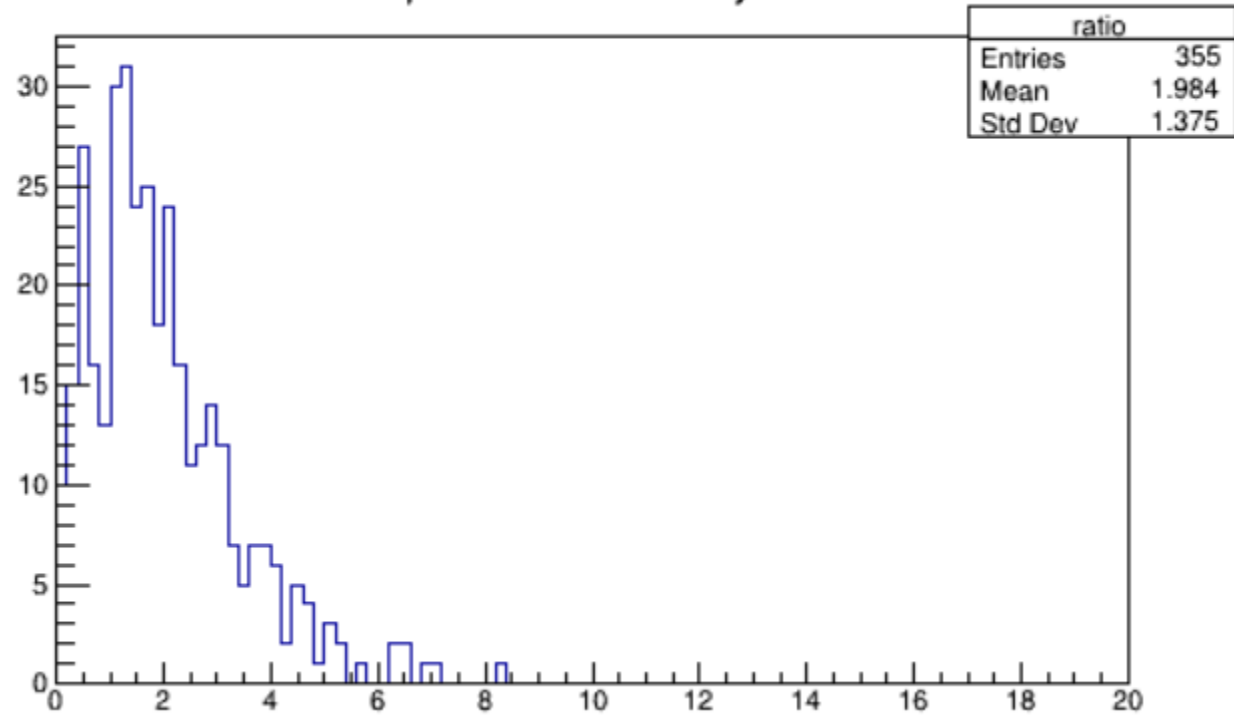
Eflow Photon Eta vs. R







ptratio of matched jet





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

