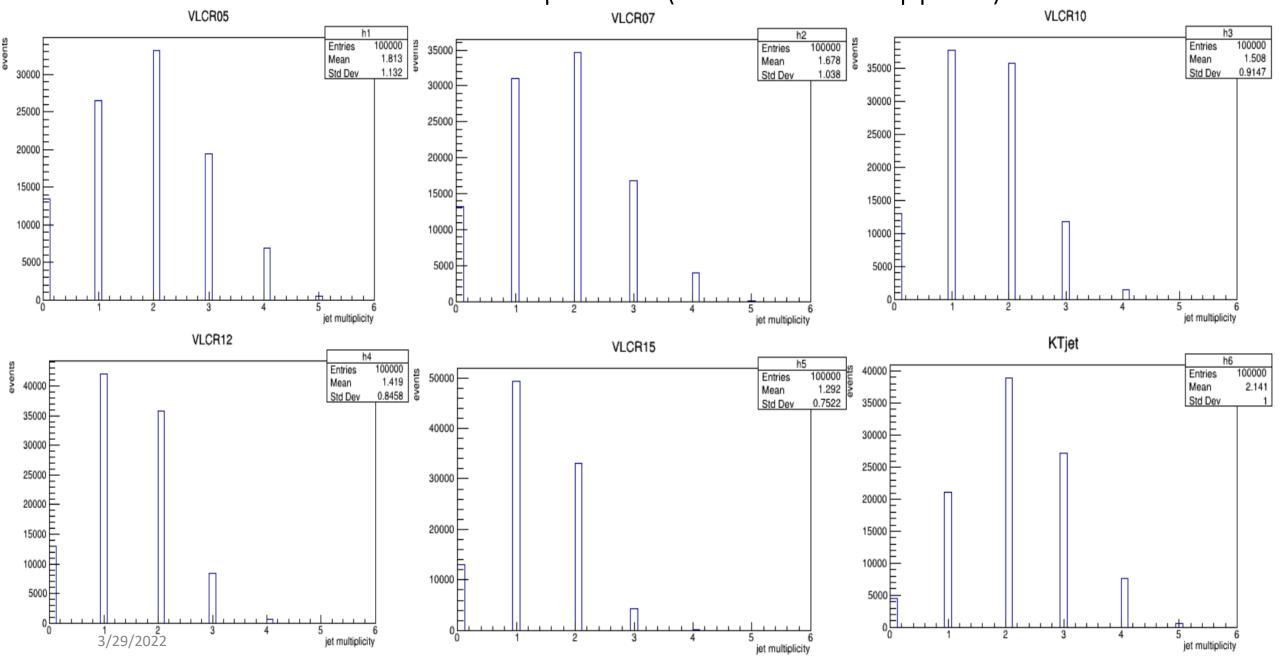
# Inclusive and Exclusive Jet Clustering Comparisons

Mayuri Kawale

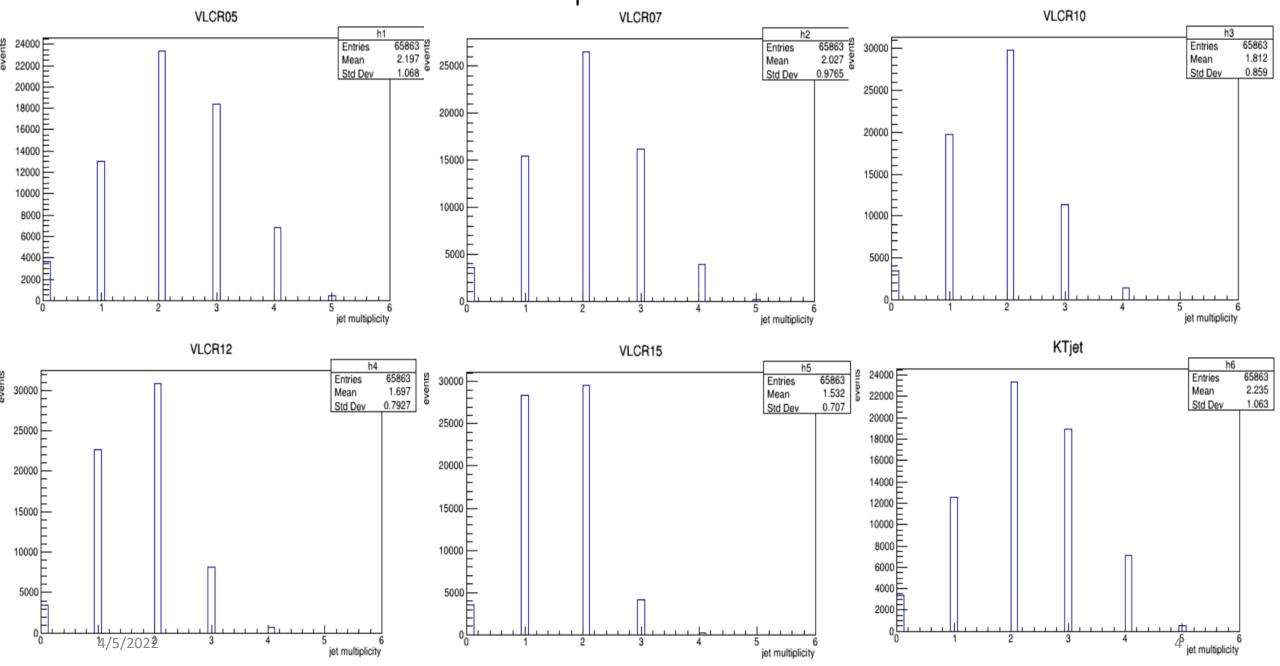
Inclusive Jet multiplicities (no selections applied)



Hadronic state selection: n\_leptons=0

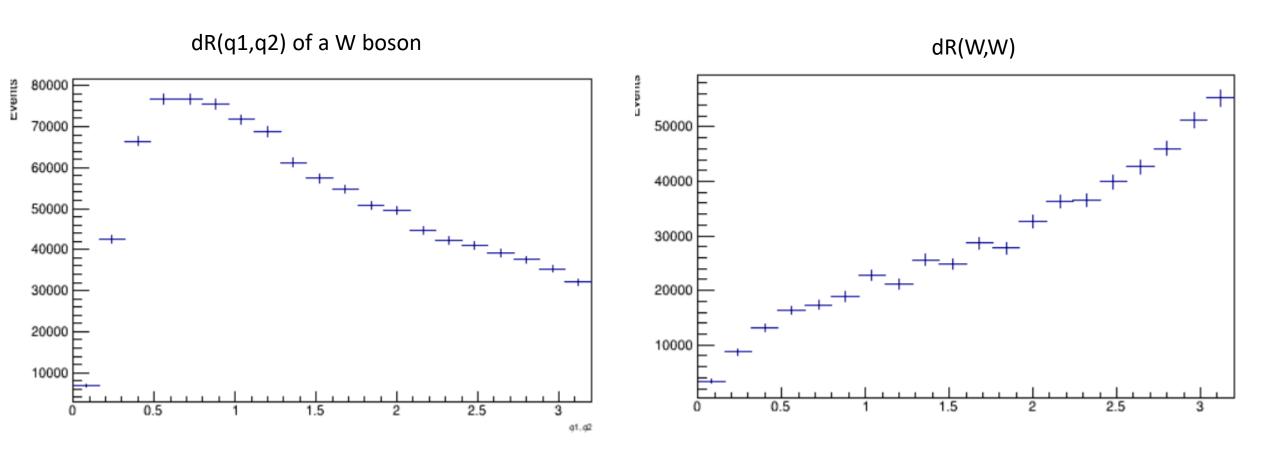
4/5/2022

Inclusive Jet multiplicities for hadronic states



## Truth-level plots

These plots are corresponding to the hadronic decays of W bosons.

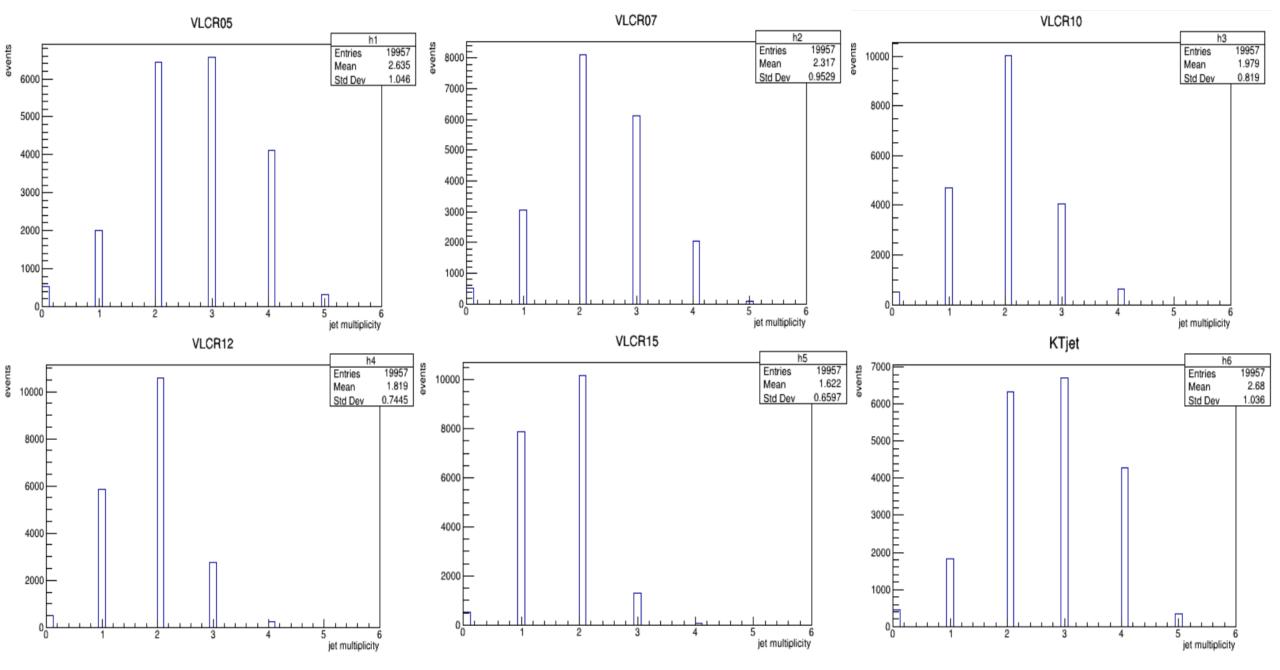


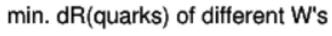
4/5/2022

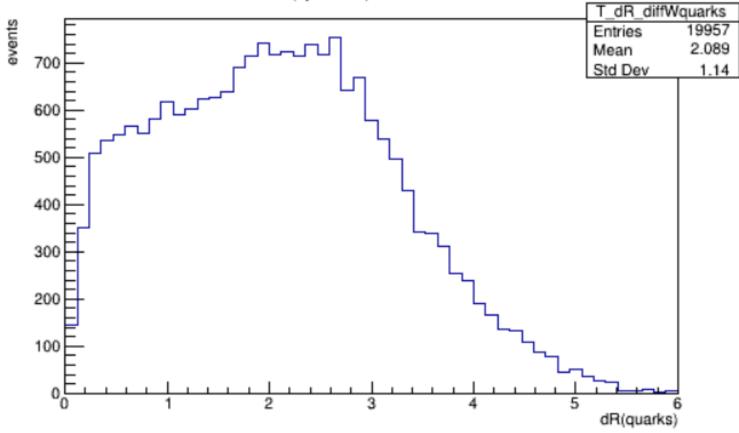
Selections at truth level: each quark has pT > 30 GeV and |eta| < 2.5

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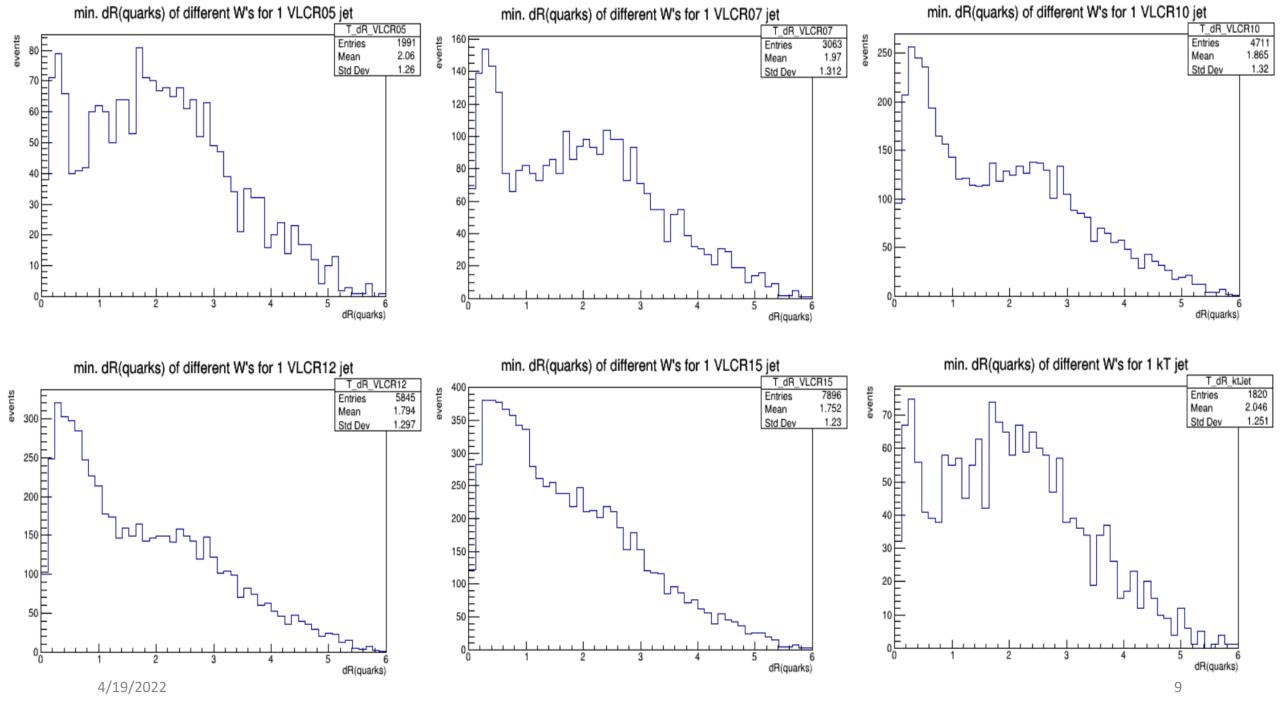
### Inclusive Jet multiplicities for hadronic states, quarks(pT>30, |eta| < 2.5)

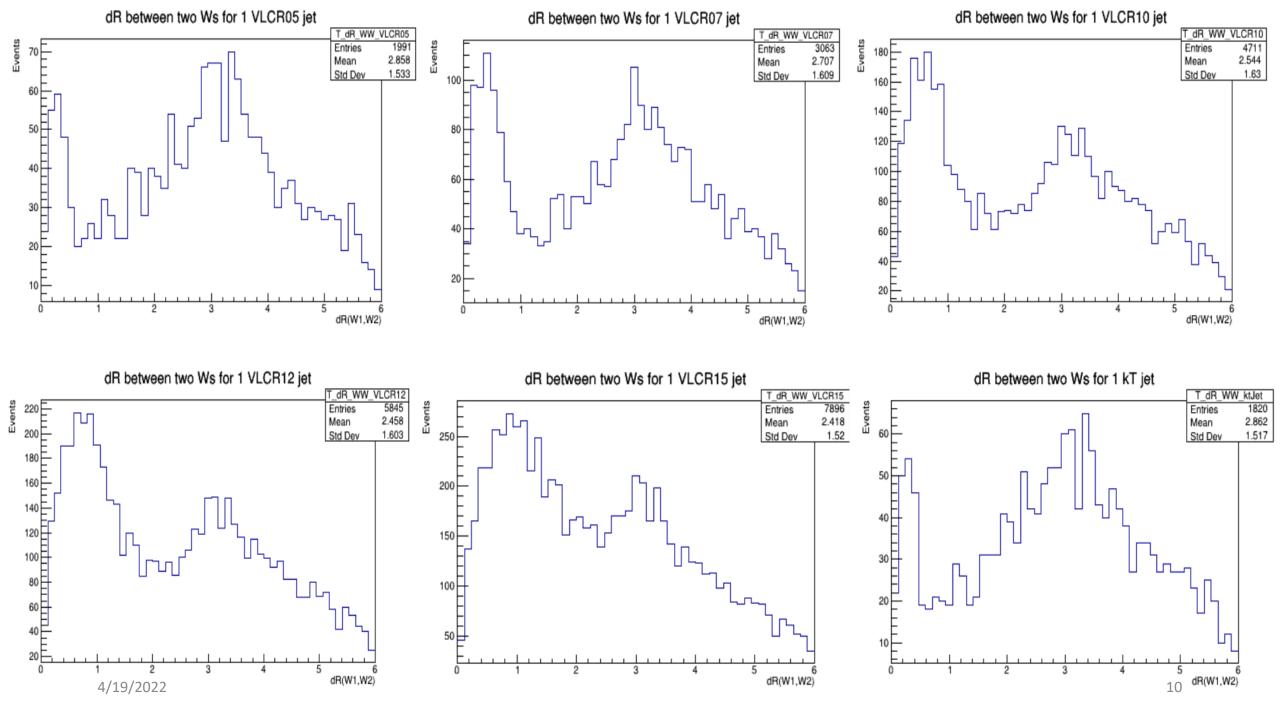






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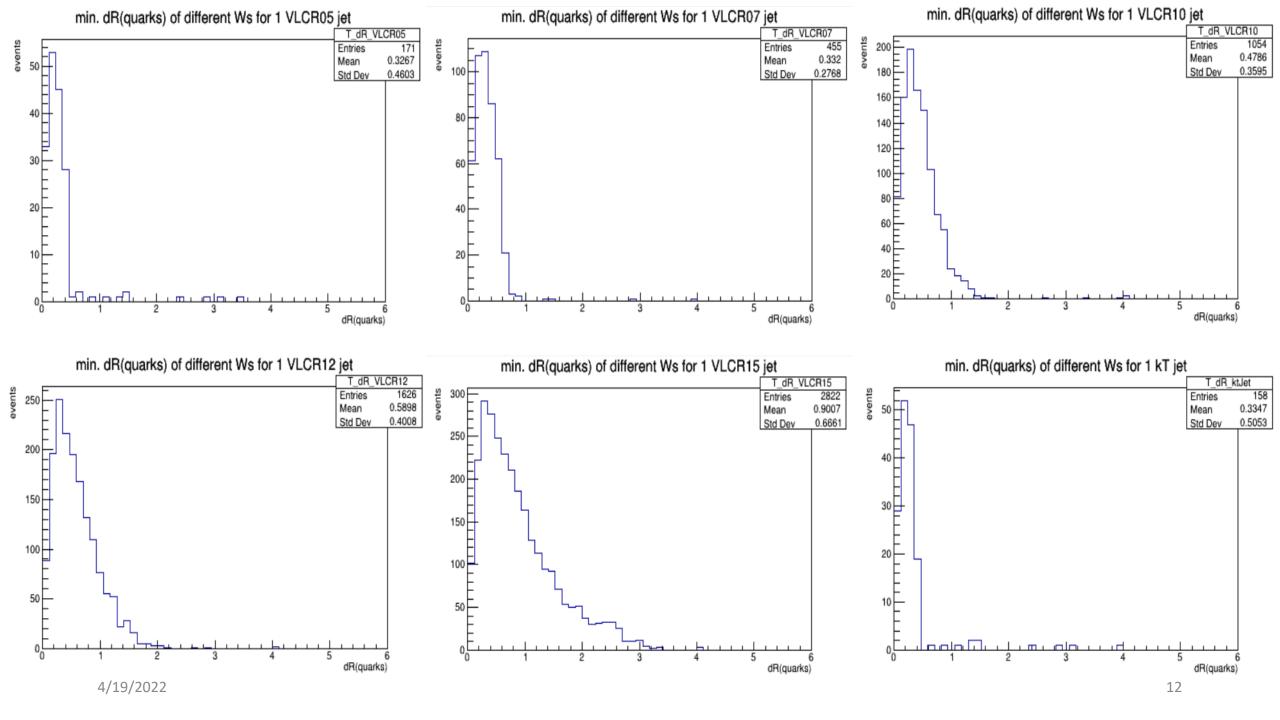


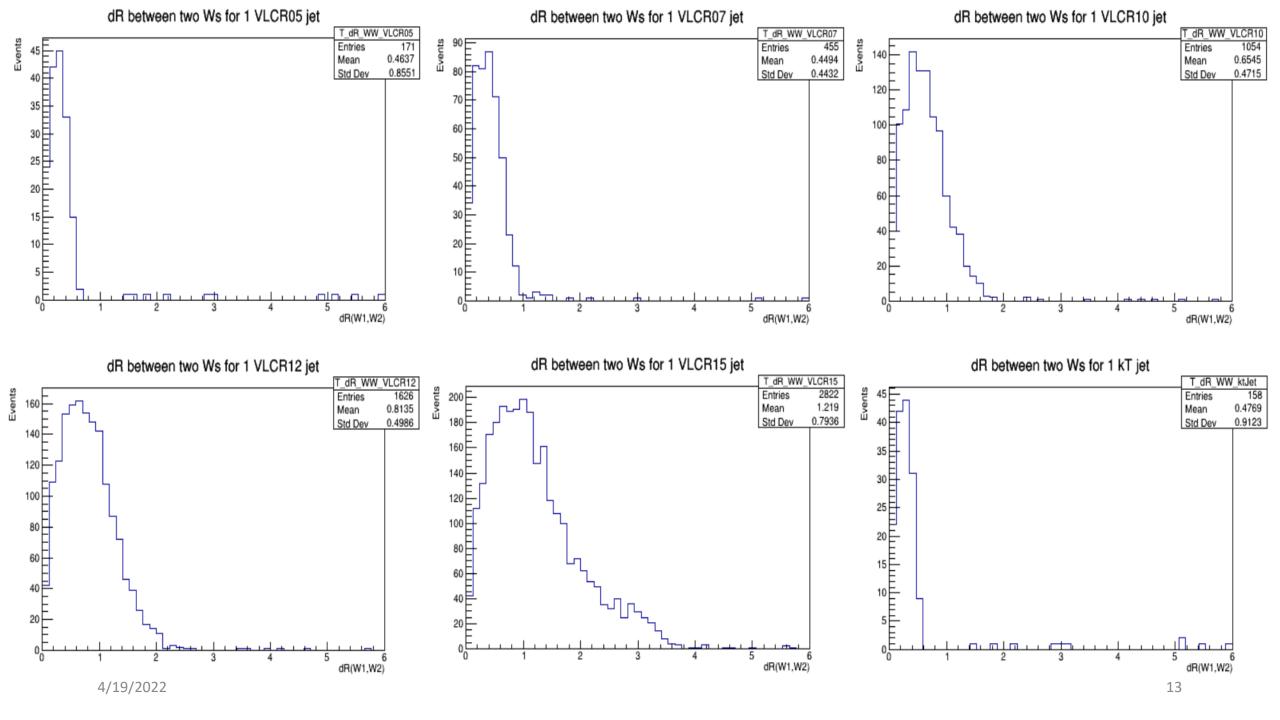


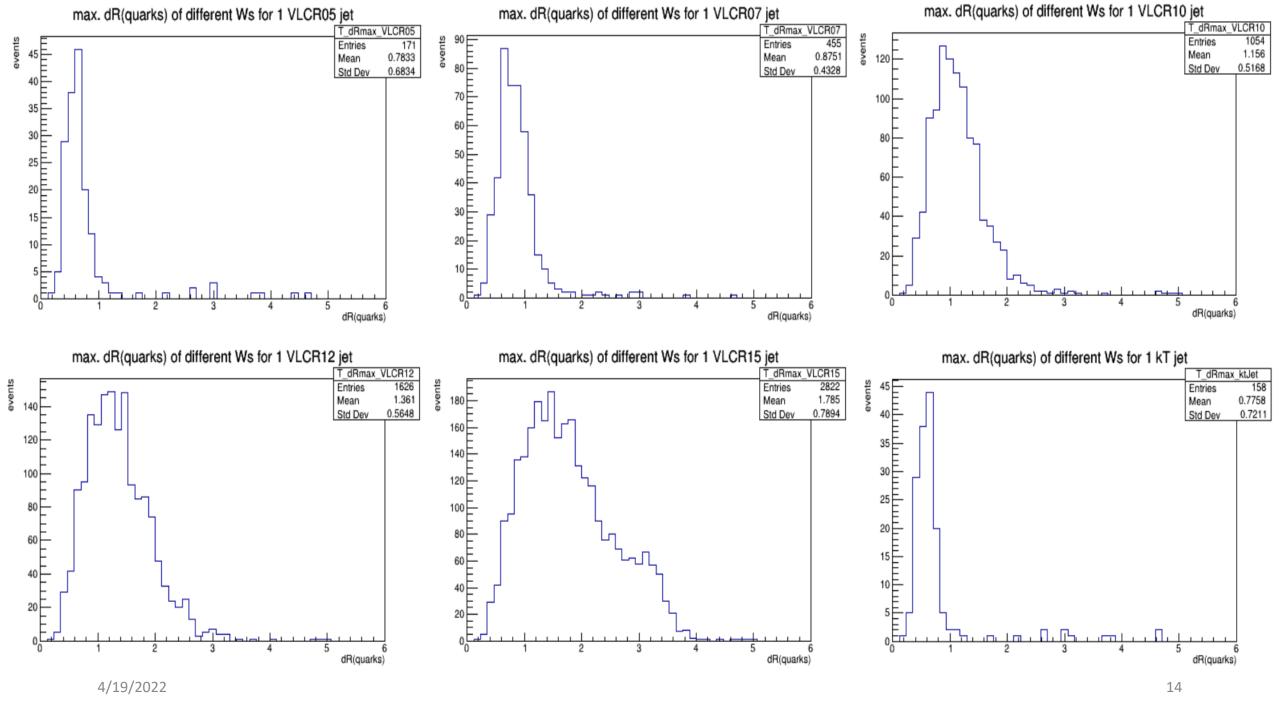
## Problems with previous graphs

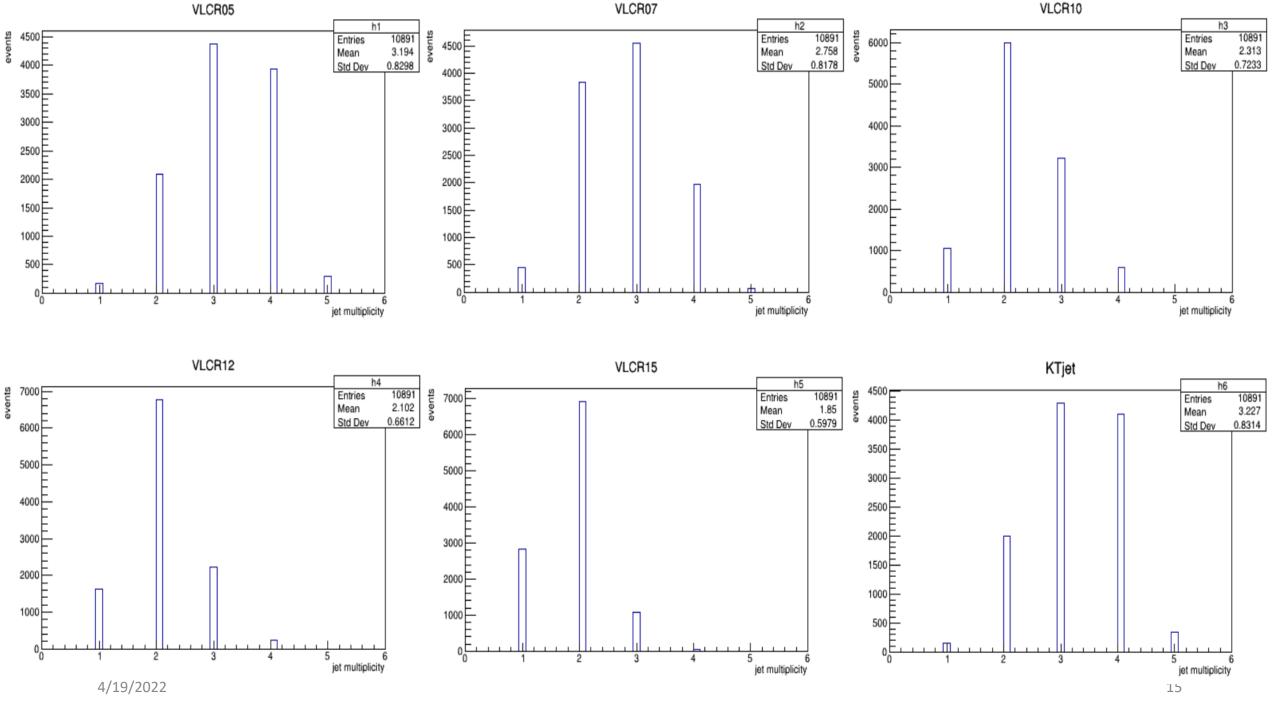
- Condition to select only hadronic states at truth level wasn't applied.
- Selection on quark eta was applied only for positive eta. So, there were quarks with eta beyond -2.5
- Plots after these corrections are shown in next three slides.

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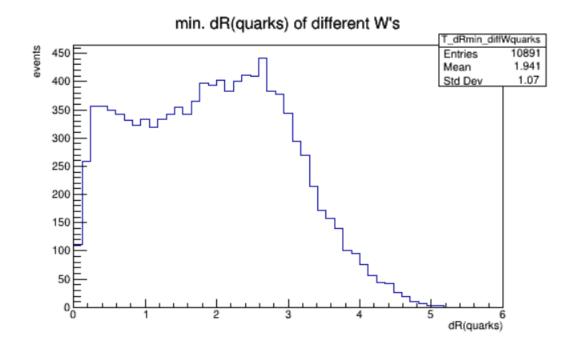


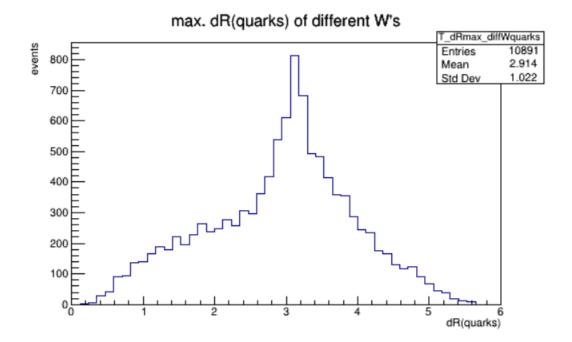






#### For hadronic states with quarks having pT > 30 GeV and |eta|<2.5





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