

CMSDAS

Jets short exercise

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Exercise content

Similar-ish to previous years:

Basic idea of jets - reconstruction algorithms, R param, concept of reco jets & Gen jets

→ leads nicely into Jet Energy Corrections

→ and Jet Resolution Smearing

Jet ID?

Jet substructure - more emphasis now standard analysis tool

→ grooming, softdrop, subjets

→ nsubjettiness

→ W tagging

→ top tagging?

→ should be things useful for Z' & jets long exercises

→ H tagging

Pileup subtraction: CHS vs PUPPI & effects on nsubjettiness etc?

Planning

Previous code ran over MiniAOD - good starting point?

Is it time to move to NanoAOD? Depends if we want to play with clustering...(prob not)

Ideally want relatively small, self-contained scripts to allow students to easily produce plots (without having to do all gory details of algos)

Run as scripts? Or Jupyter hub & notebooks/SWAN?