# **PAG exercise: Top mass measurement**

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## Structure of the exercise

- taking the one from DAS2023@CERN
  - repository: <u>https://github.com/CERN-CMS-DAS-2023/long-ex-top</u>
  - slides: https://indico.cern.ch/event/1292949/
- Top quark mass from b-jet energy peak
  - students work with skeleton scripts
  - in first common part, they produce Data/MC comparison plots and familiarize themselves with the selection/processes
  - Then we split the group in two:
    - one group implements systematic uncertainties
    - one group derives the mT vs. peak position calibration
- About to migrate everything to NAF (nTuples) and new repository

### **Technical requirements**

- space on nfs to store ntuples O(50G) with public access
  - Currently located at /nfs/dust/cms/user/jipark/public/PODAS2023/long-ex-top
- naf accounts for all participants, basic environment setting (bash/zsh)
  - user folders in /nfs/dust might be needed due to file permissions
- no HTC support necessary, but nice to have
- framework based on CMSSW/ROOT
- Tested public codes on NAF and worked fine

## **General comments**

- Jiwon can help students in person during the weekend
- Possibility to open a zoom session for exercise?