

## **b-ID:**

The CAFE interface works...

But, there's bugs in ROOT's TBranchRef autoloading which required significant workarounds

Cross-checks have been added (random integer identifiers) to make sure that the right b-tags are associated to the right jets, and vice versa

p17 certification is on hold due to lack of properly fixed data! Major setback... no b-ID for winter conferences!

BID skim will not be available until Mar. 1st... b-ID pre-certified by April 1st... fully automated... speed limited only by TMB processing speed and NN training.

In the meantime, working on more advanced certification studies... beta correlations in system8, PVZ parameterizations, 2D interpolations for TRFs, etc... lower (and realistic!) systematics.

## **bbH:**

Figured out what's wrong with the  $m_h=170$  GeV Pythia simulation (thanks, Gustaaf!)

- MDME(higgs,W)=-1, not 0... allow phase space for production, but not decay

Verified that the Pythia simulations for the other mass points were valid

Processed this new mass point and produced limits, histograms for combination with  $h \rightarrow \tau\tau$

## **Stopped Gluinos:**

Writing the analysis note.

Deadline is Jan. 27th!