

b-ID:

** I'm on my own right now as convener...
(might need more time at Fermi in the short term until new help arrives)

p17 certification (v1.1):

Note is in b-ID group review...
(extended until we finish answering comments)

p17 v2.0: (an update, for publications)

Will be based on the final p17 JES, ready in ~2-3 months.
I will work on this, along with Sarah Schlobohm.

We've started learning nn_cert.

- 1) Submitted batch jobs to make nntuples, data and MC.
- 2) Can skim the samples, get final nntuples.
- 3) Have not run the last step... running the training, certification.

Justace making progress with a certified SVT for p17.

Yvonne making progress optimizing the SV reconstruction parameters (track pT, chi2, etc.)... -> random grid search in MC.

Hwidong making progress with the SLT(mu)NN tagger -> ~5% extra b eff.
with minimal extra fake rate.

p20

We are generating MC (Z->qq and Z->bb) for a study of how much b-ID should improve due to L0.

Stopped Gluinos:

Waiting for Dave's comments. Will bug him soon.
I'm shooting now for publication approval by DPF (so the new limits can be shown there).

p17 Search for NLLP->bb

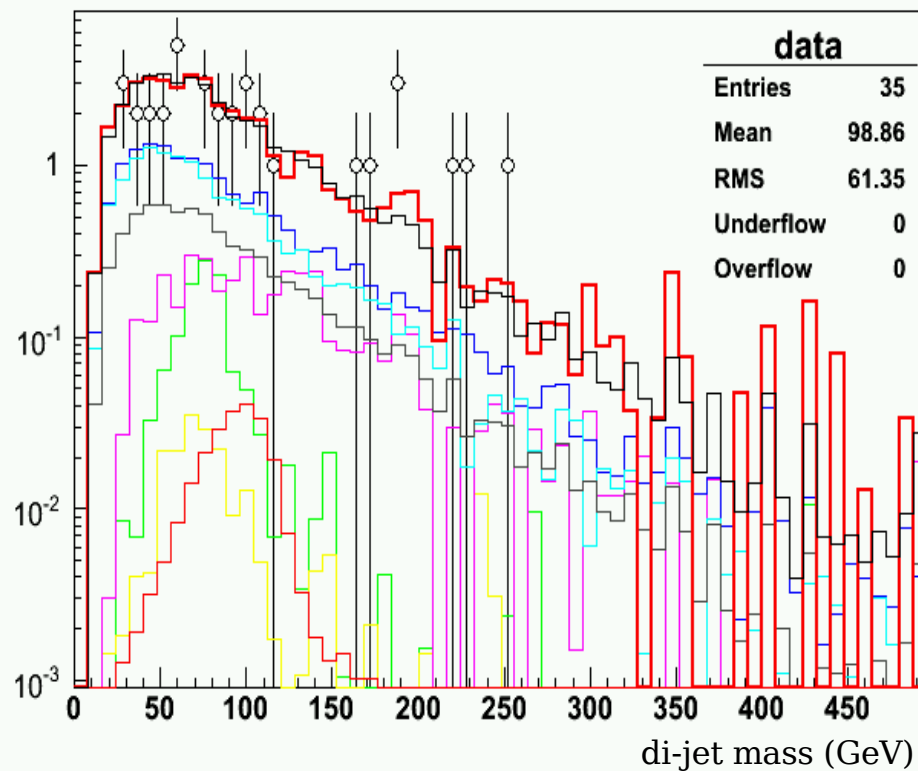
Stalled...

p17 ZH(->mumubb):

Working on systematics, analysis note.
If time: Apply our fancy NN, and use CLs to set limits.

Deadline: must be done for DPF, note to group by end of Sept.

Z + 2 b-tags



L3:

We installed new farm nodes (32, borrowed from CAB)

Can now get to $\sim 180e30$ before 100% CPU busy
(was $\sim 150e30$ before)

16 more nodes this week... should get to $190e30$

Sunday's store came in at $228e30$!

122 new nodes coming, but not until the spring...

Idea: try "trigger leveling"... buffer events in the farm nodes at the beginning of the run, and process them later on, when CPU is available.

Gordon's simulation: equivalent to farm x 2 !

Have tested a longer buffer (need help from Scott)

Have added some extra monitoring to the farm nodes:

- queue length
- queue latency

Adding extra synchronization between the nodes:
Routing Master to route each event to the node with the smallest latency (amongst nodes with identical number of free buffers)...

Make sure that all events coming out of farm were taken at approximately the same time (± 1 minute or so).

Little impact on the rest of data taking... except examines will now be a little behind!

We're discussing ways to bypass / deal with this...

Store 4949 cpu performance vs Luminosity

