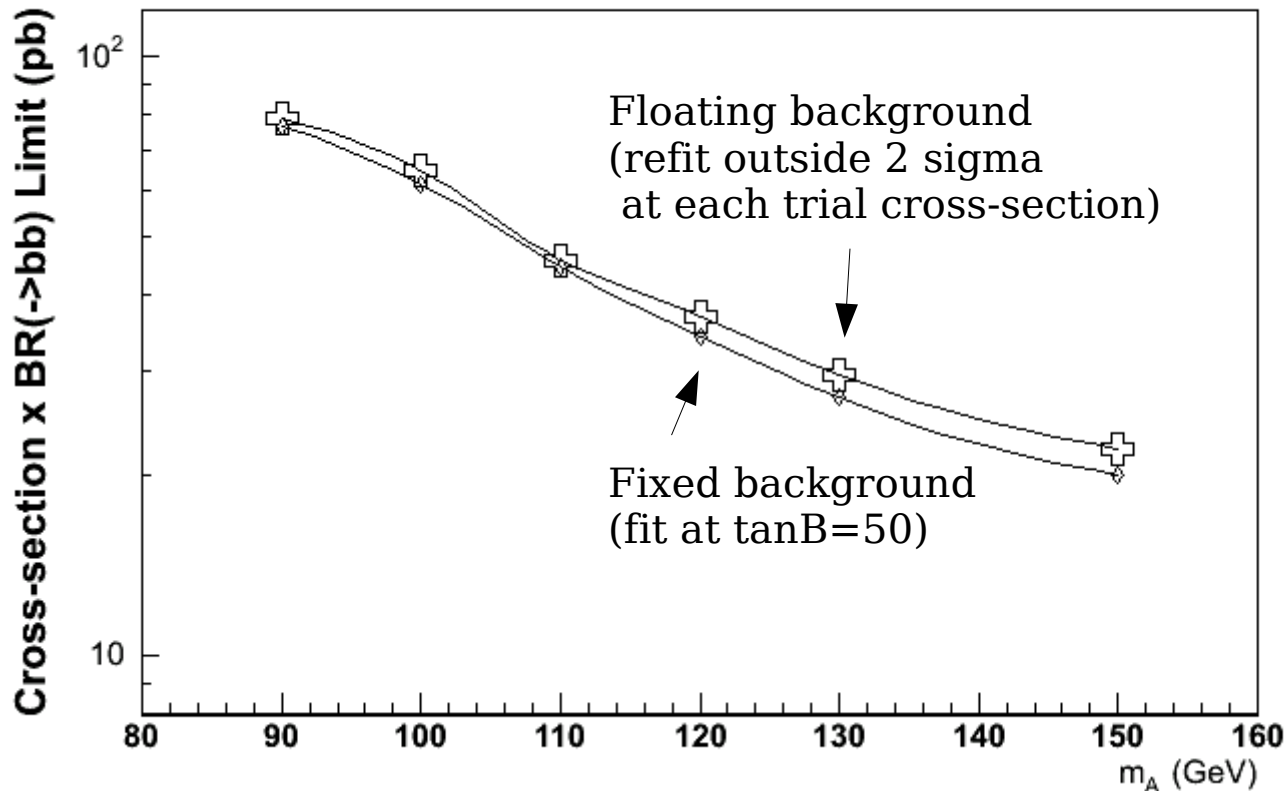


## bbh(->bb) Limits

Some previous results were calculated without refitting the background at each trial signal cross-section value. Instead, the background was calculated for a fixed cross-section corresponding to  $\tan B=50$  (assuming b-h coupling enhancement proportional to  $\tan B$ ). These previous results are compared to the current results below. The difference in cross-section limits is small (corresponding to  $\tan B$  values of 1 or 2 units). The background normalization is smaller by 2-3% at the excluded cross-section, depending on mass, when refitting the background at each trial cross-section value.

We are planning a private meeting with CDF in response to their complaints about our limit-setting methods. Hopefully we will then receive comments from the PRL reviewers and publish the paper shortly.



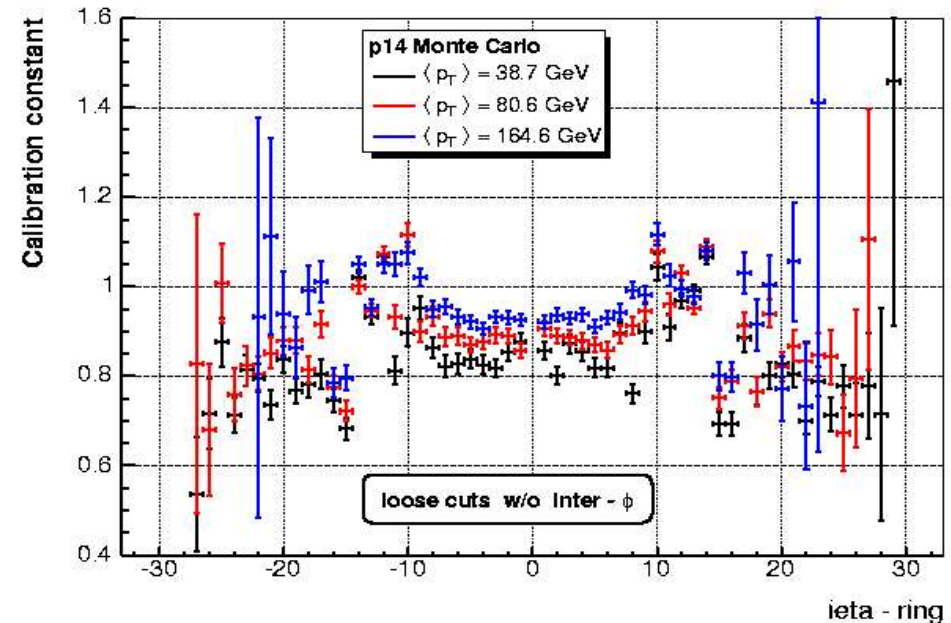
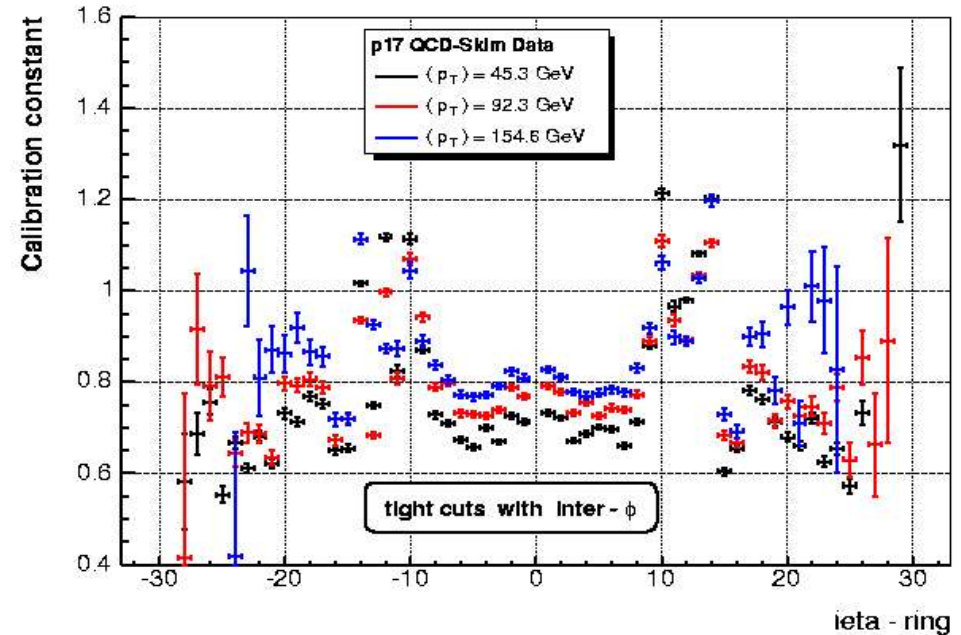
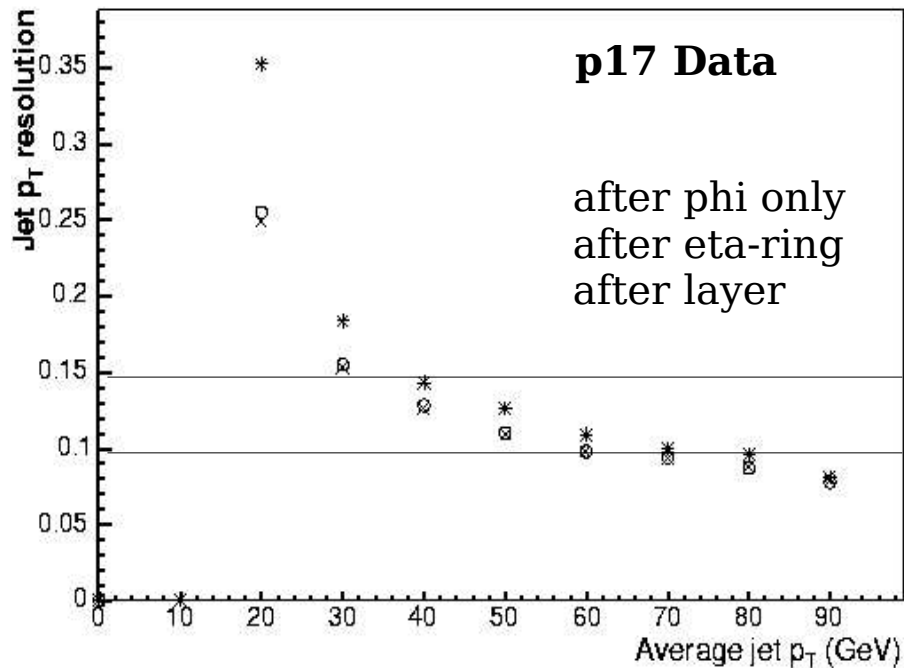
# Hadronic Calorimeter Calibration / Jet Resolution

Inter-phi calibration has been completed on 6.5M

Initial eta-ring constants are available...

We're trying to understand 2 issues:

- 1) Do we re-weight the MC, to obtain optimal resolution? We're leaning towards "yes".
- 2) Since constants vary with  $p_T$ , which to use? For now, I think we'll just use an "average"  $p_T$ . But I am studying using the  $p_T$ -dependent weights directly in the jet reconstruction.

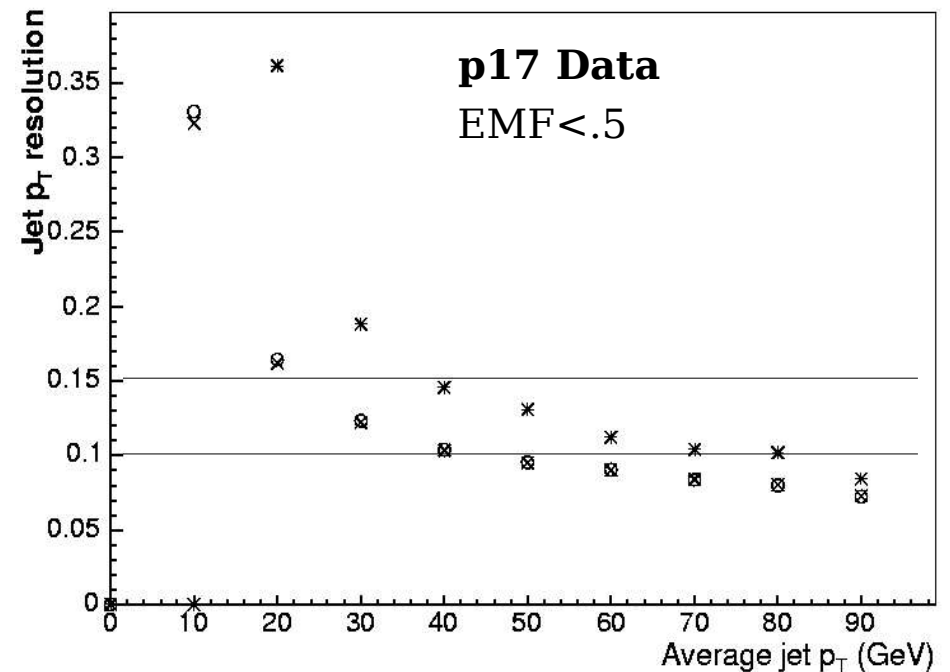
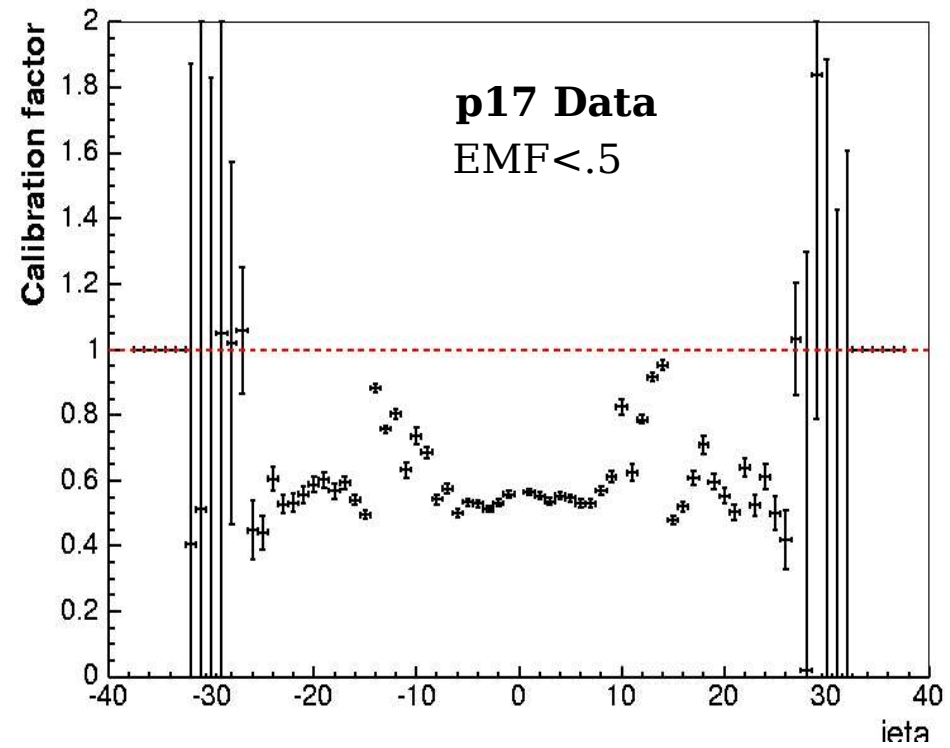
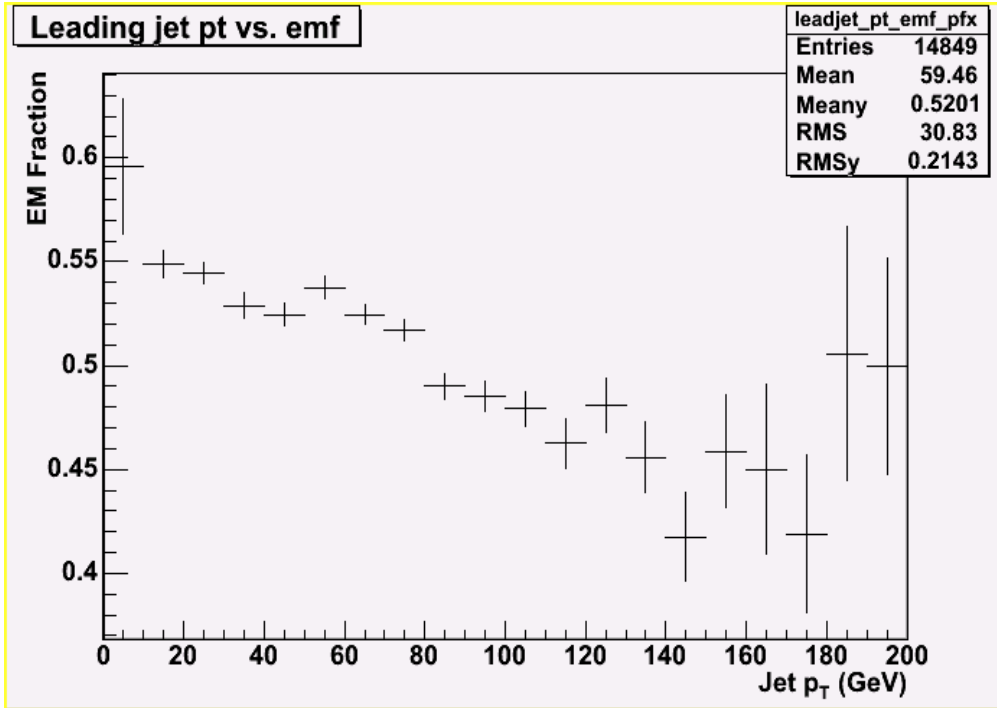


Most recent hadronic calibration studies:

How about MET resolution?

**What is the dependence on EM fraction?**

If the hadcal has become non-compensating, can we correct for it by identifying EM and hadronic subclusters? (ATLAS-style!)



## Other things going on

I've agreed to be co-BID-convenor for the next 2 years.

First task will be to oversee the certification of the NN tagger for JES 5.3 and p14.

Next will be to expedite the certification of the taggers for p17 – to be done on CAF.

I've got to get the d0ve event display working in the CR, in online release p17.05.00

Per and I talked in Vancouver and agreed to complete the Z->bb analysis note and get a conference note approved ASAP. In time for EPS?

