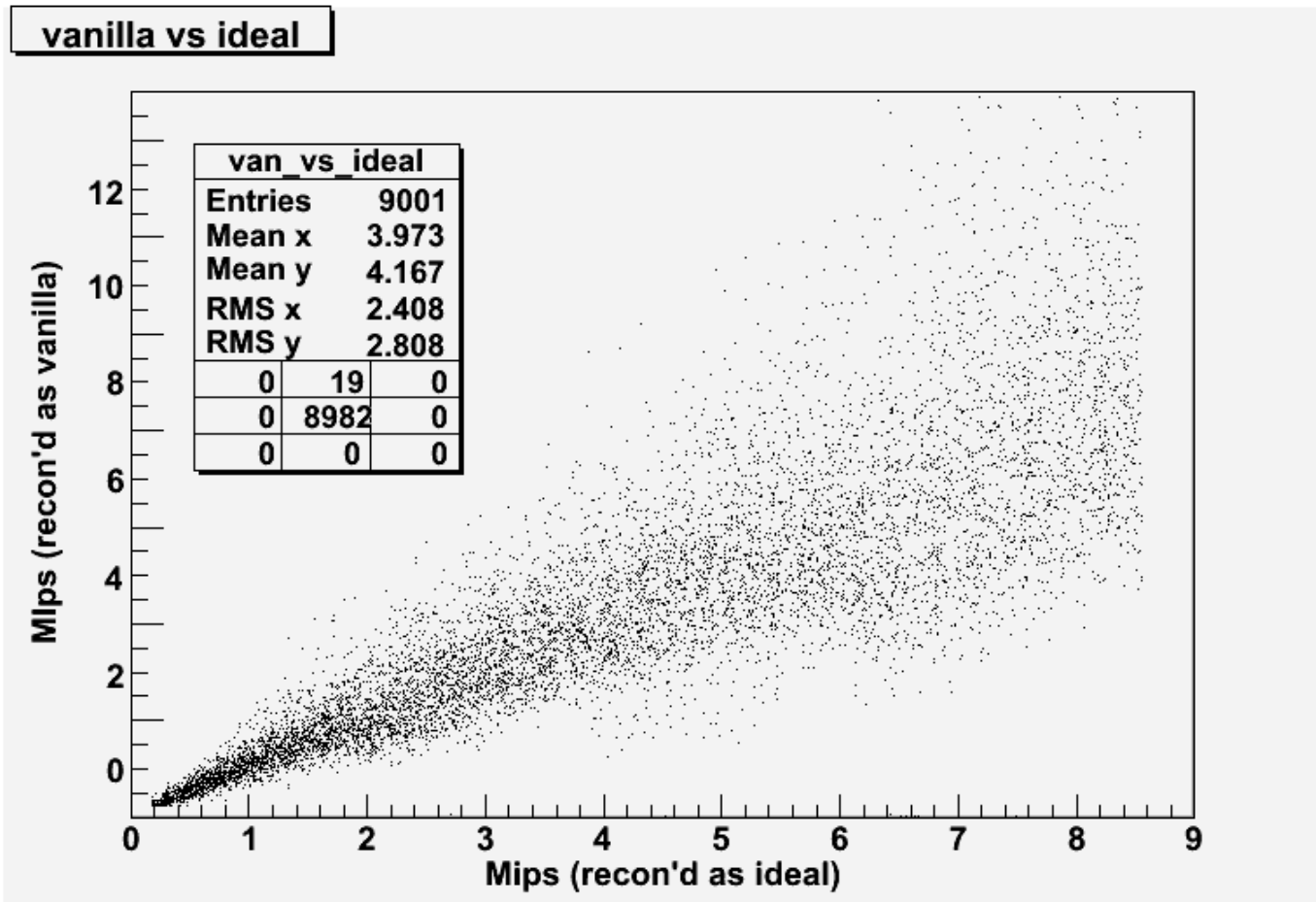# More on Dual TKR Calibrations

Leon R.

Core Meeting

31-Oct-2006

Example of Dual Calibration

ToTs generated as ideal,
reconstructed as either ideal or vanilla

Effect of calibrations on our results (Most important first)

- Alignment
  - PSF, absolute coordinates
- ToT
  - Event classification, backgrounds
- Bad strips
  - ???

Alignment

- Different strategies for inter- and intra-tower
  - Inter-tower
    - Get estimates of expected uncertainties, and move each tower "randomly" within these uncertainties
  - Intra-tower
    - Do a "calibration" starting with the originally determined constants.
    - Try to get an estimate of distortions due to temperature effects
- Use new constants for generation

Time-over-Threshold

It's not obvious what to do…

- For the purely statistical errors, we could try to do calibrations on two different data sets.

- Probably the most relevant uncertainties come from effects of event timing, temperature, overlapping background events, etc., etc.

  – Not modeled in our code

Any ideas are welcome!

Bad Strips

Even less obvious… what we would model is good strips called bad, and vice-versa.

- Add and subtract dead strips from the found set.
  - How many?
- Add hot strips to generation?
  - No way to do this currently
- Deal with intermittent strips?