CALICE TCMT beam test status report

Guilherme Lima

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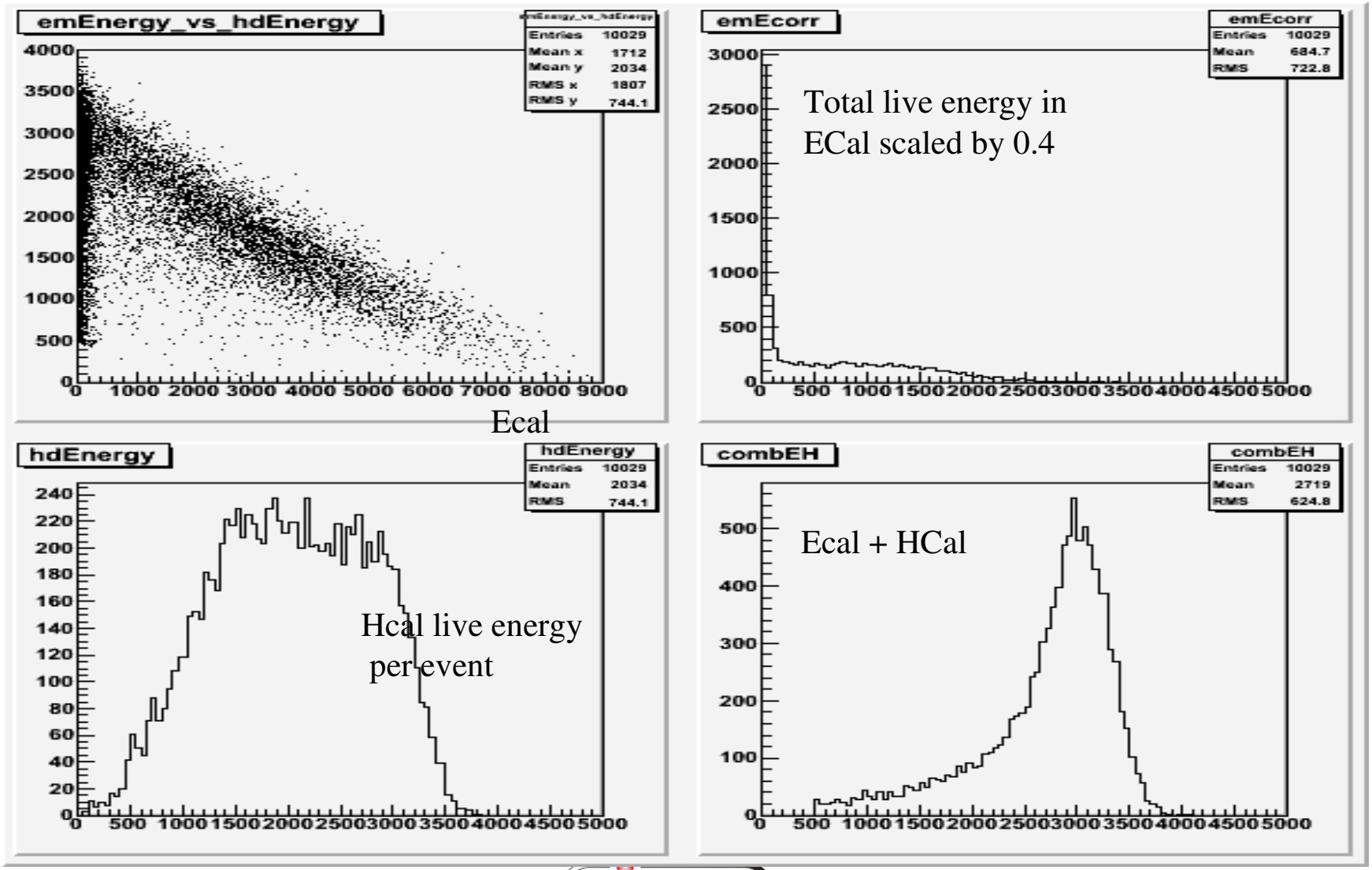
News since last presentation

- Monte Carlo
  - Updated version of Mokka with Cern TB geometries
  - Generated 10GeV muons and 80GeV pions
  - Used DigiSim + muon samples for “calibrations”
- Data
  - Update on the analysis using more complete prototype
  - Comparing data vs. MC (proof of concept)
- **All plots shown here are still very preliminary, and cannot be interpreted as a rigorous comparison, rather as a test to identify important missing pieces**

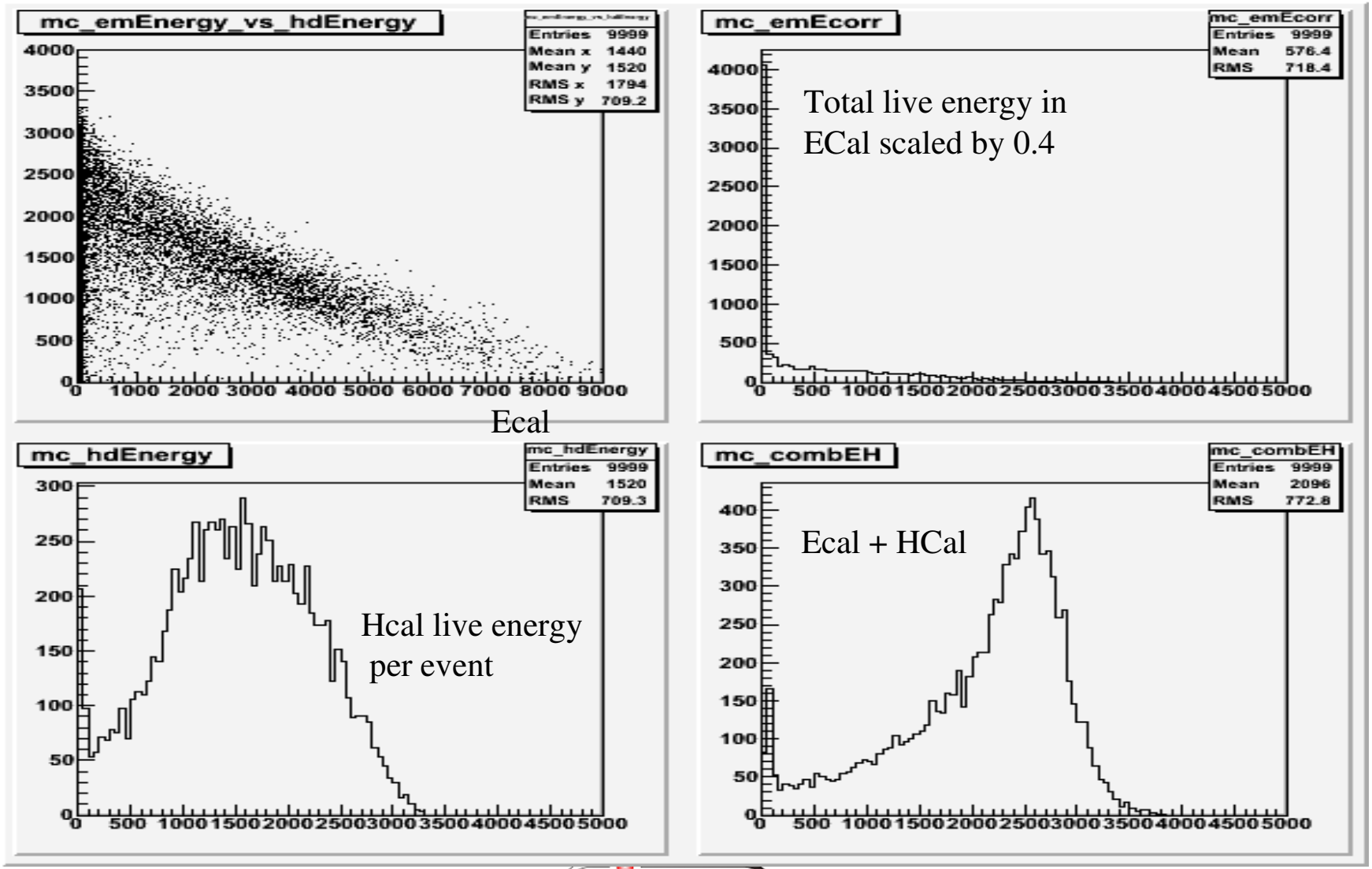
Combining Ecal and Hcal – TB data

Hcal

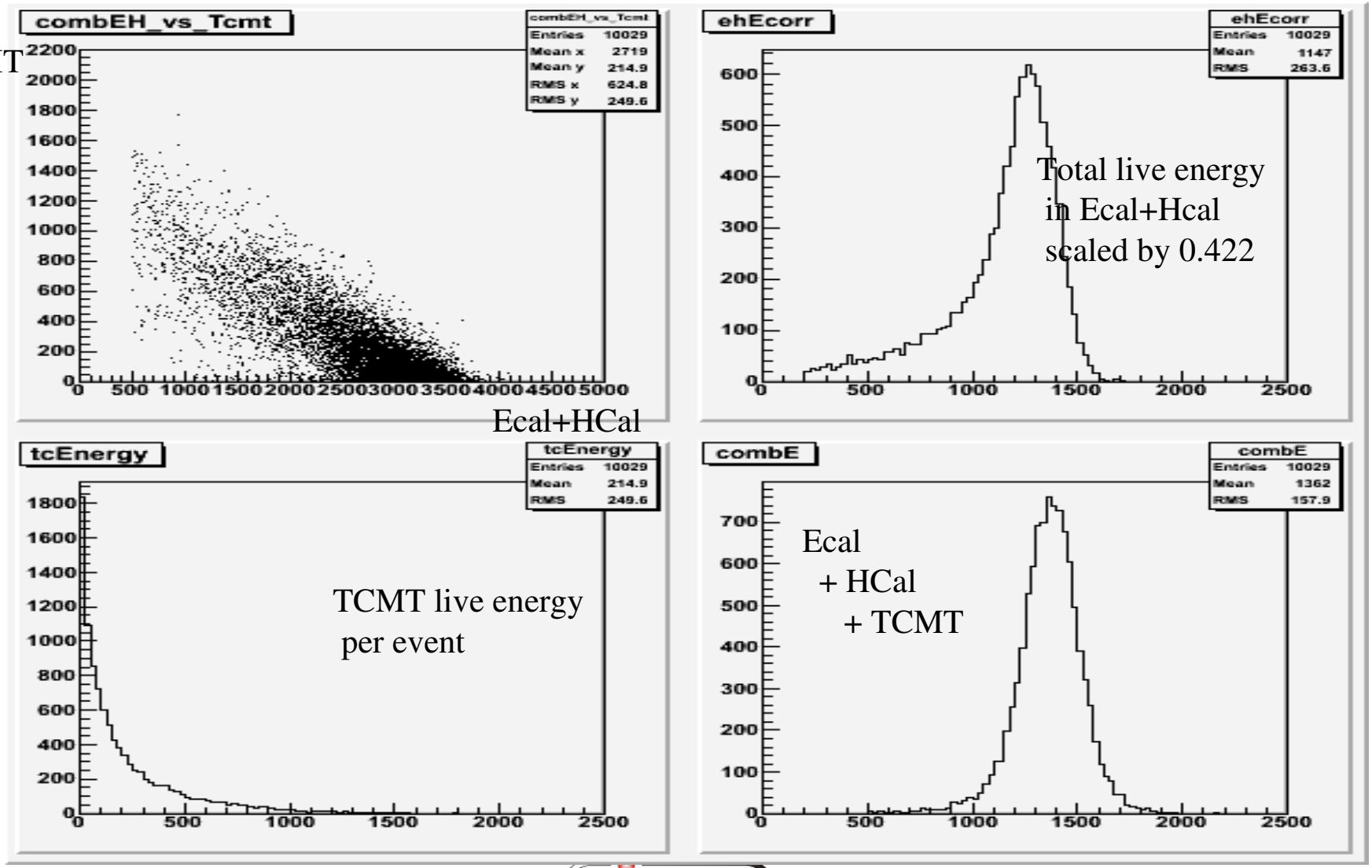


Combining Ecal and Hcal - MC

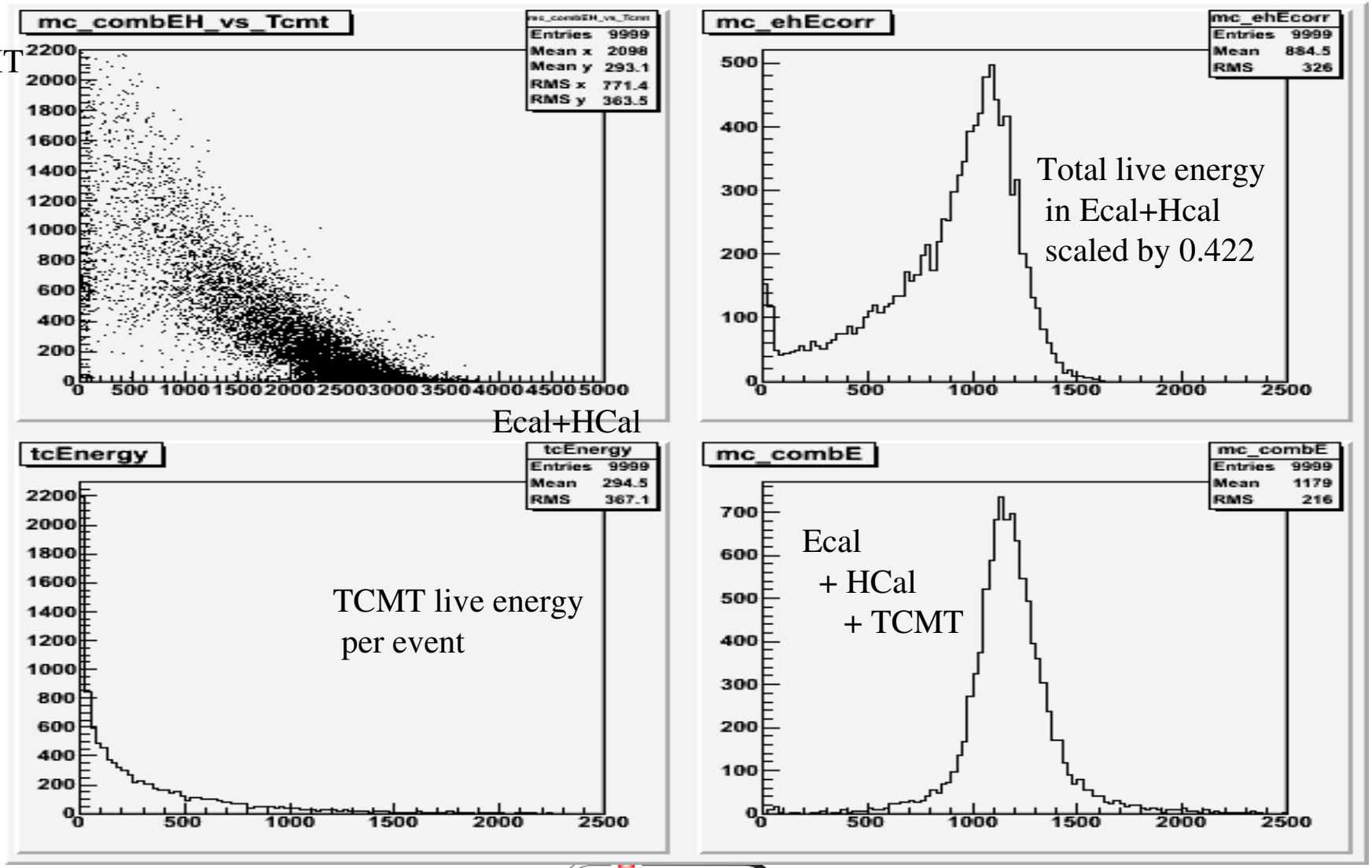
Hcal



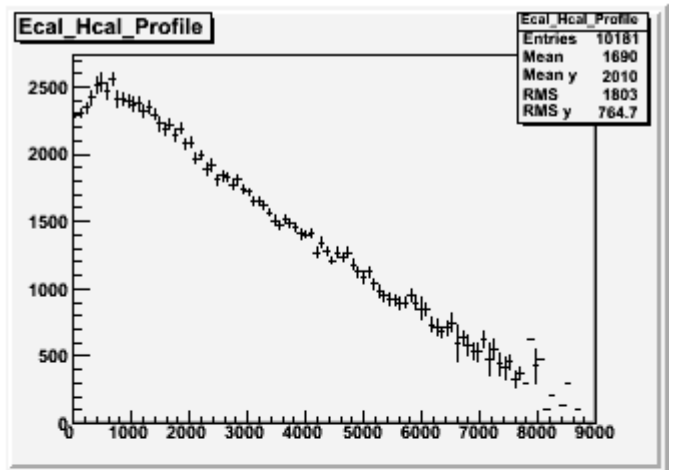
Combining Ecal+Hcal and TCMT – TB data

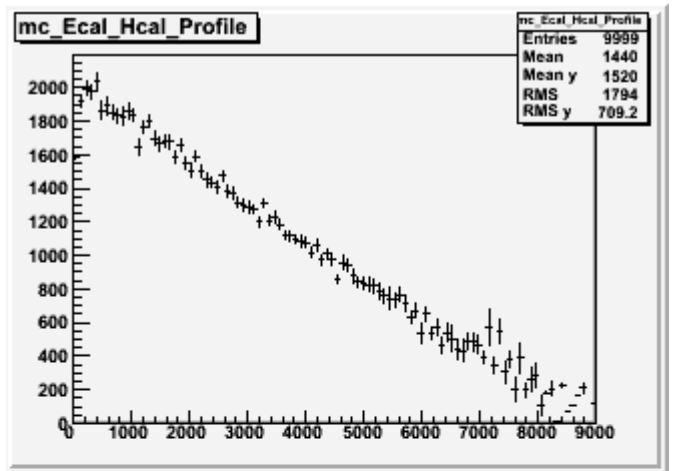


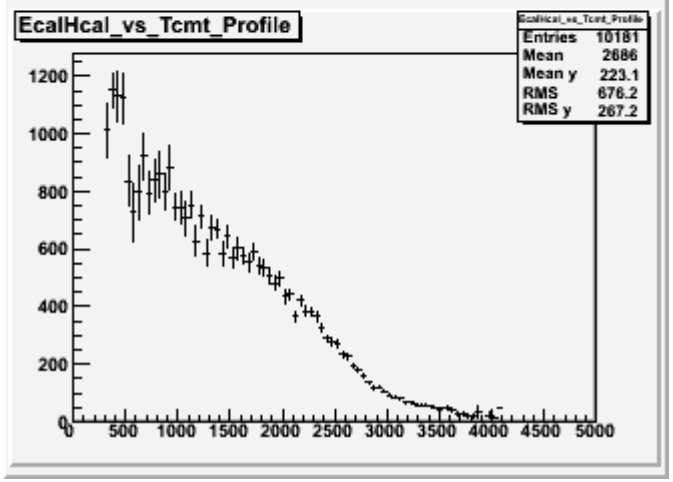
Combining Ecal+Hcal and TCMT - MC

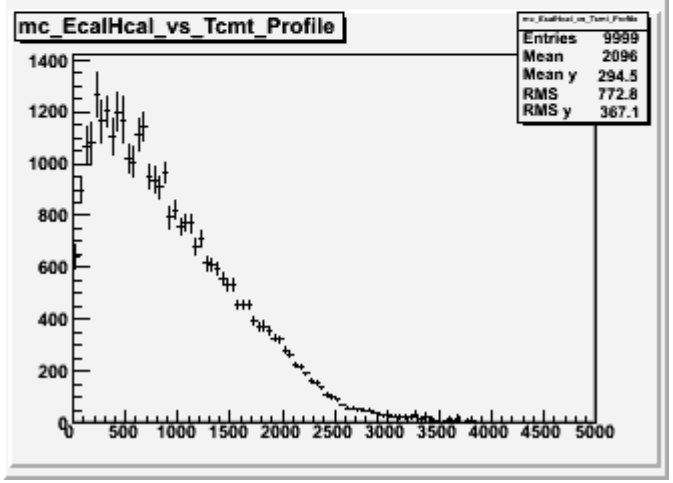


Ecal+Hcal vs. Tcmt profiles









To do next

- Compare more basic distributions
  - cell energy distribution
  - total # hits per event
  - energy and # hits per layer
- Corrections for detector effects
- Look at other pion energies