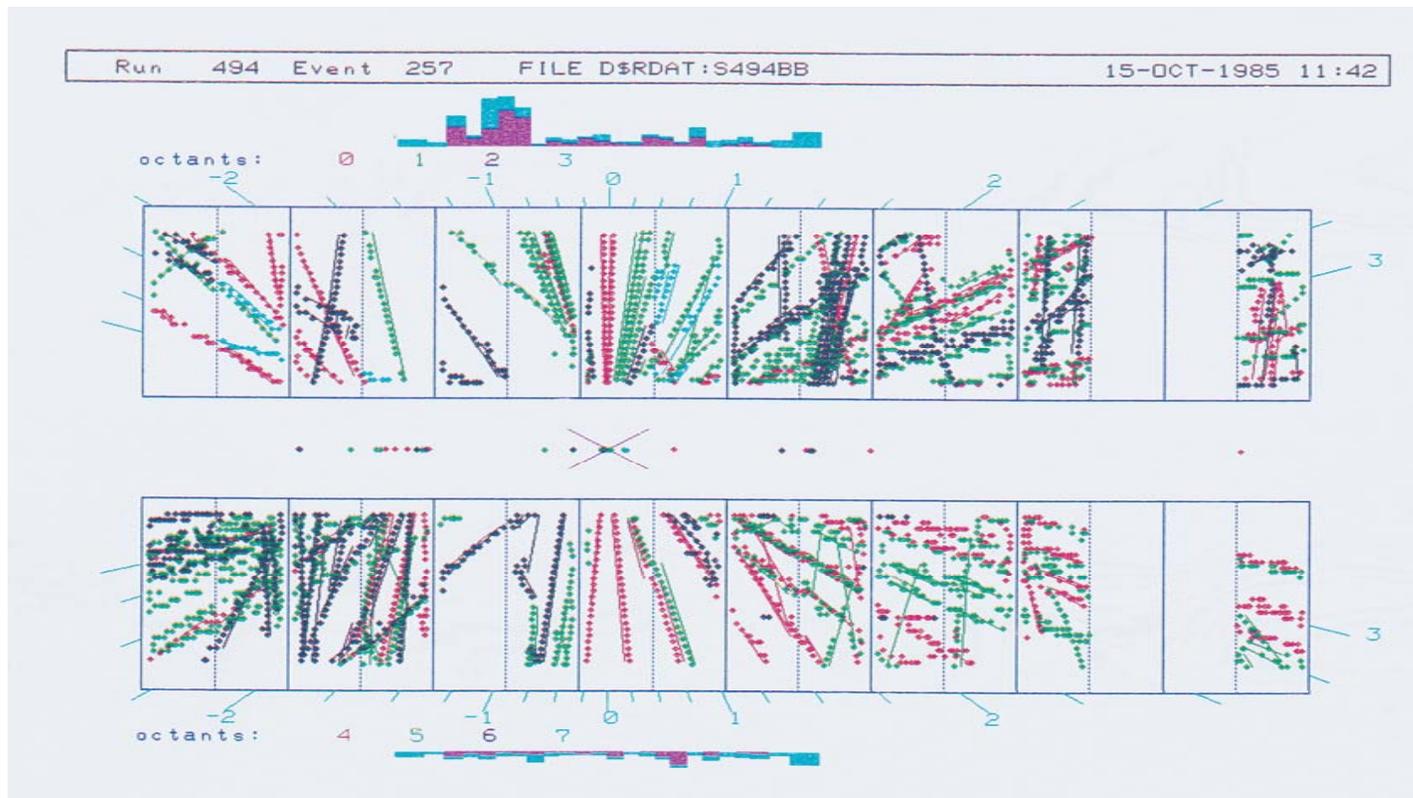
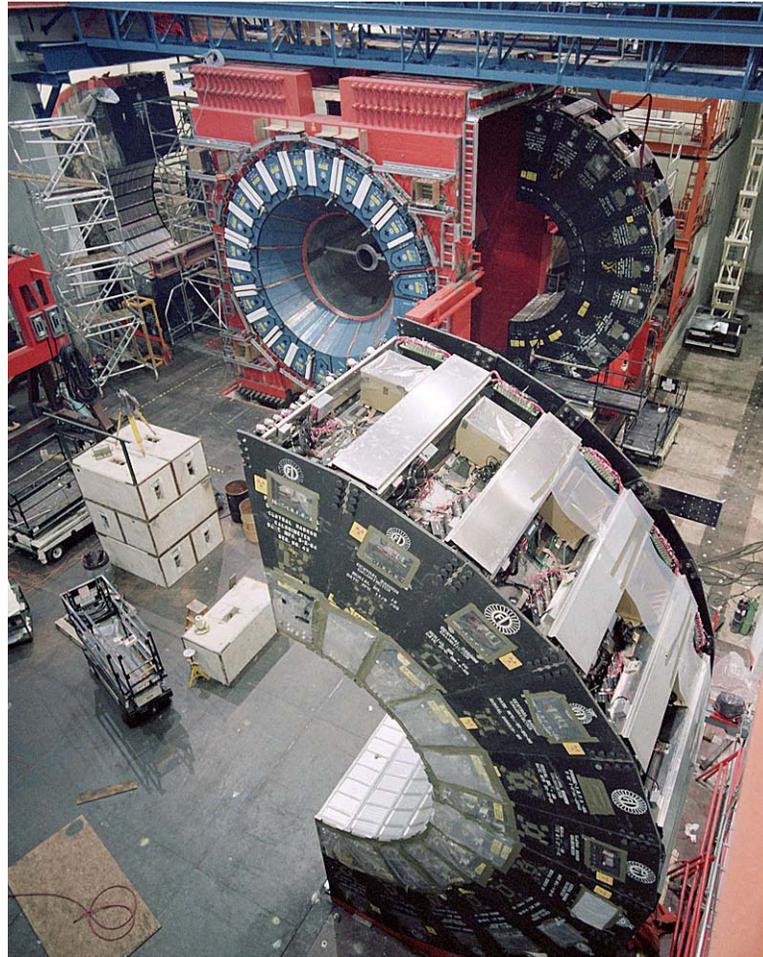


# Calorimeters, 1985

Event display of one of the first collisions at CDF, October 13, 1985:



**Actually, the central and endwall calorimeters are very large systems:**



**Many people and groups had provided substantial manpower and components by 1985, including:**

**Japan (Tsukuba, KEK):** Scintillator, wavelength shifters and phototubes for the EM calorimeter

**Italy (Frascati, Pisa):** Scintillator, wavelength shifters, light guides and phototubes for the hadron calorimeters, laser calibration system

**US (ANL, FNAL, Illinois, Penn, Purdue, Rutgers):**

**ANL:** Strip chambers, lead-scintillator stack assembly, LED calibration

**FNAL:** RABBIT electronics system by PIG group, module assembly, calibration beam, rigging and cabling at B0, DAQ system

**Illinois:** CMU system (chambers)

**Penn:** Source calibration system

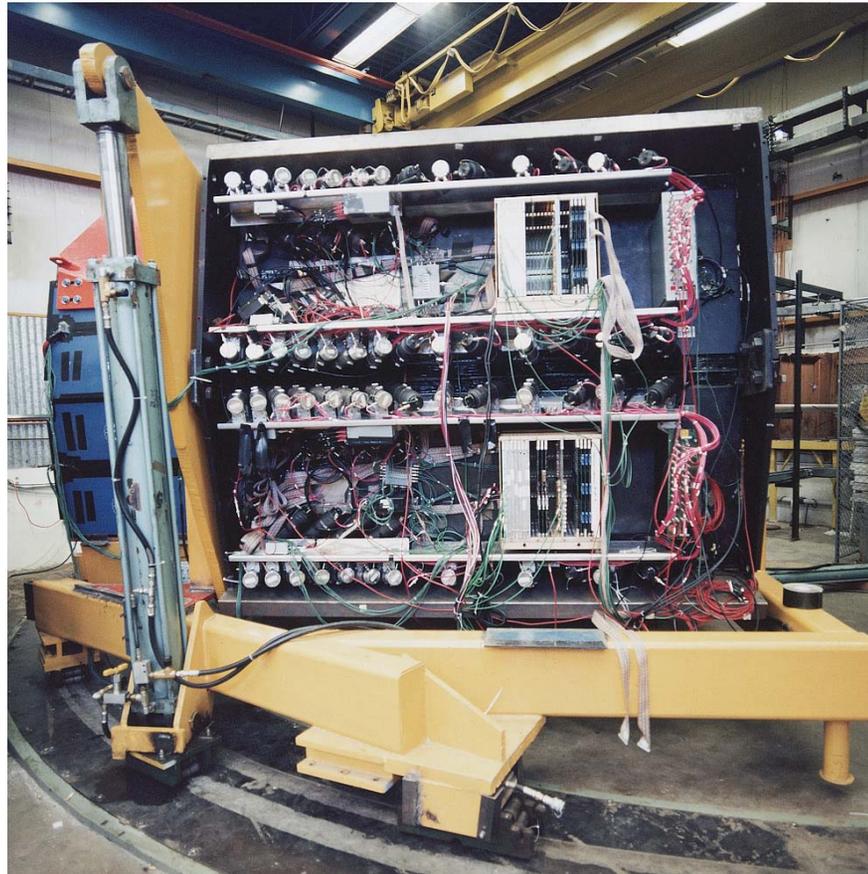
**Purdue:** Steel structures

**Rutgers:** Phototube testing (EM)

## Assembly line in Industrial Building 4



**Every tower of every central calorimeter module was calibrated  
in the test beam with 50 GeV electrons and pions:**



# Archtest

**Name of the ~5 month long task at B0 in 1985 to commission the calorimeters for the first collisions**

**It developed into a very intense effort, 24x7**

**Given the short time and the many last-minute parts deliveries (production electronics, power supplies), it had a chance of success only because so much work had already been done (calibration in test beam and with sources and cosmic rays)**

**It achieved its goal and brought CDF a big step forward. And the calorimeters are still working!**