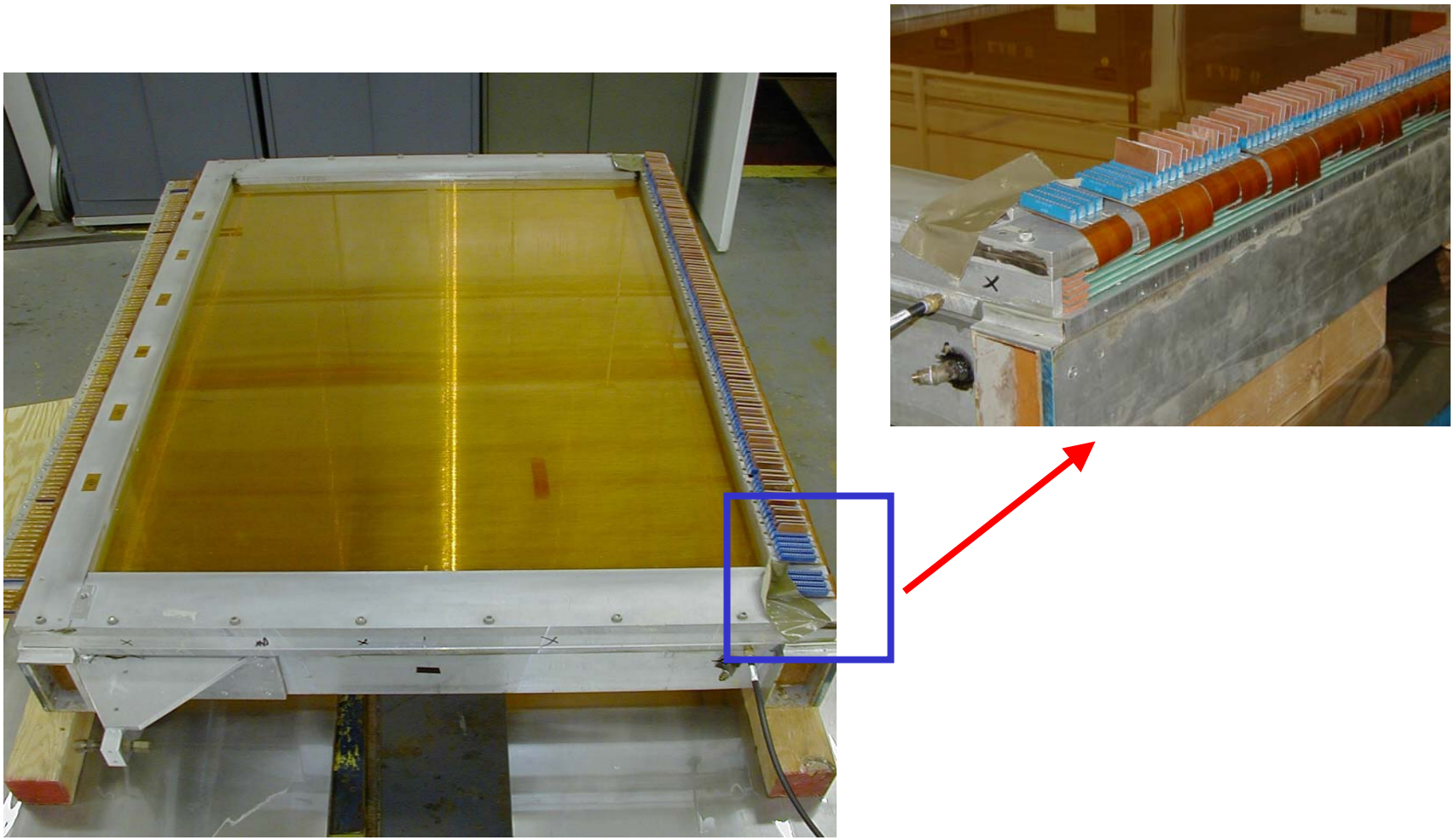
CHAMBER TESTING

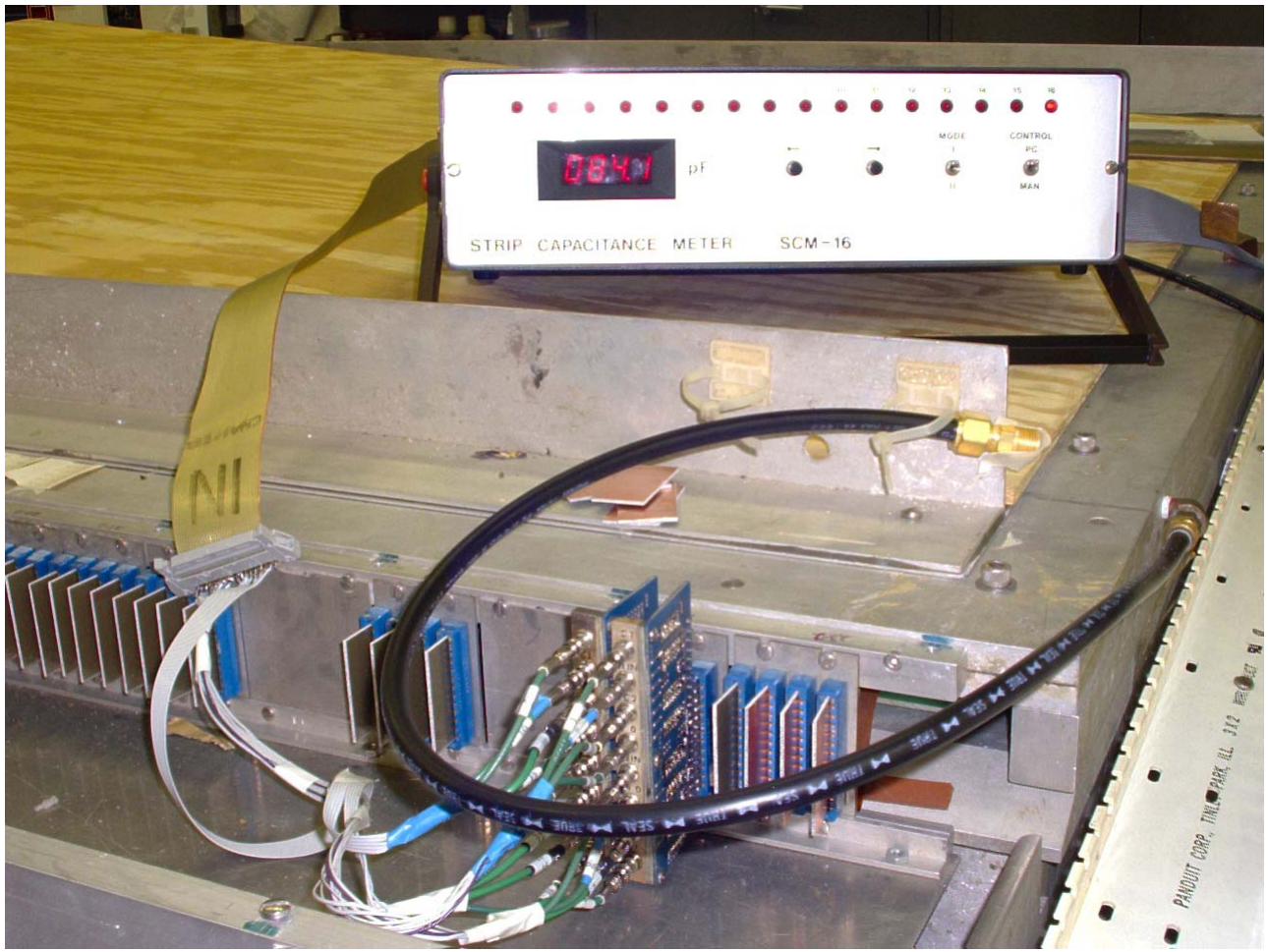
A. Bujak G. Zilizi (Purdue), A. Godley (U. of S.Carolina)

- Capacitance measurement results
- Cosmic Ray Setup
- Conclusions

CHAMBER #1 (#2 and #3 similar)

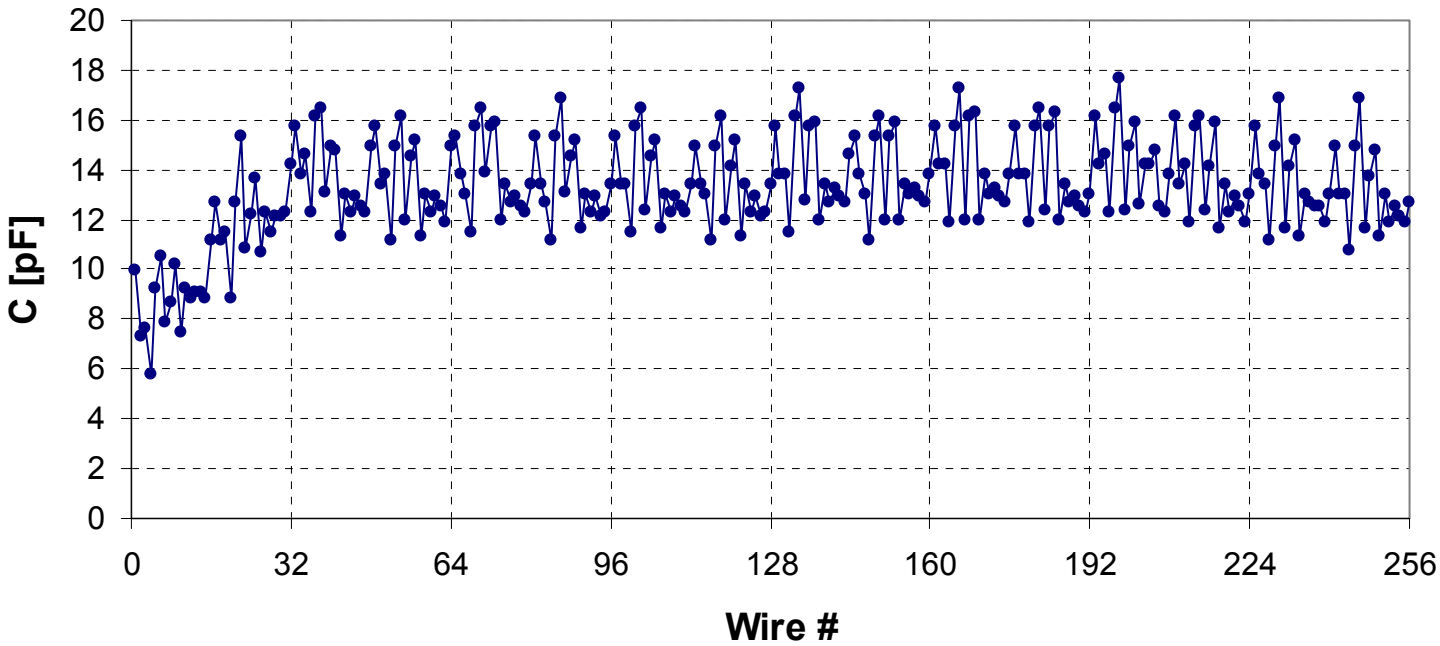


CHAMBER CAPACITANCE MEASUREMENT

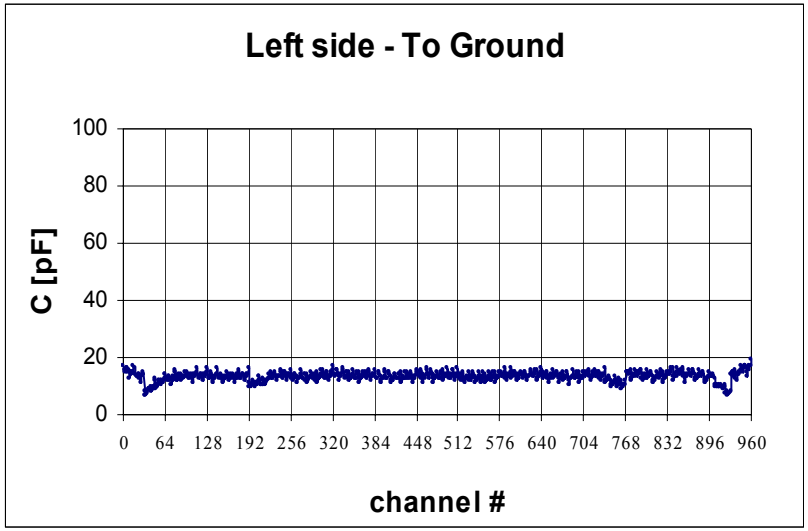


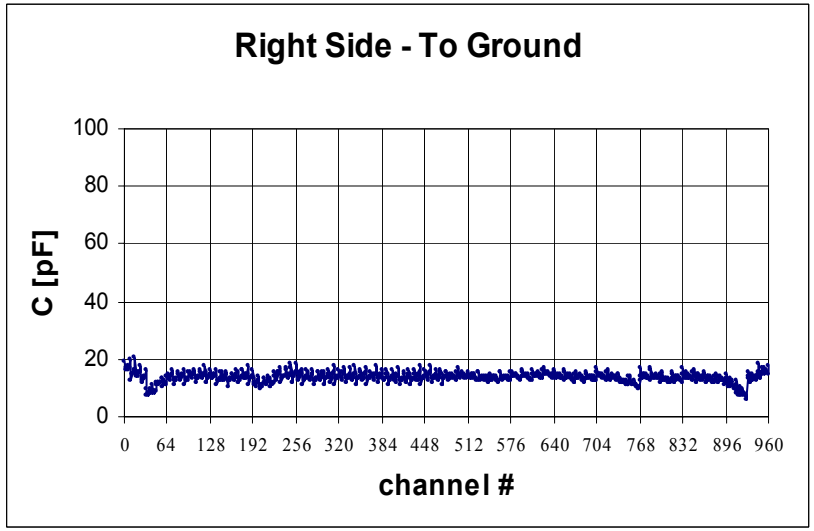
CHAMBER CAPACITANCE MEASUREMENT

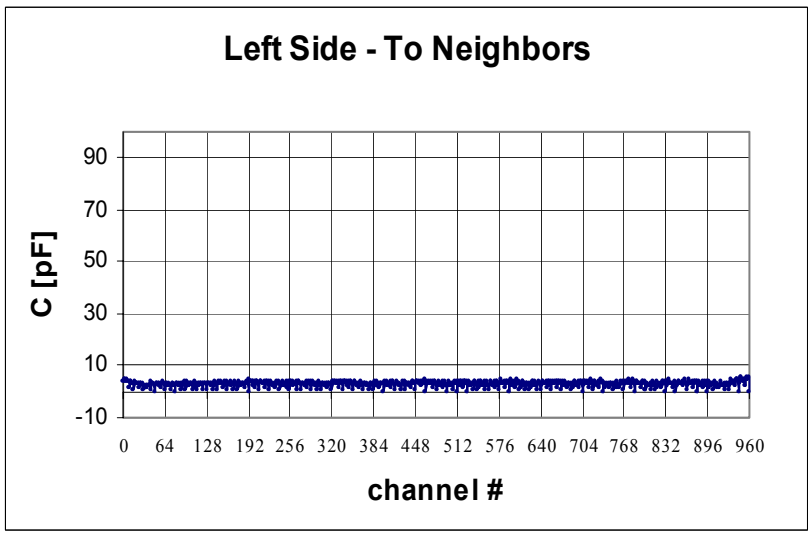
ANODE-TO-GROUND CAPACITANCE (Chamber #1, plane #3) - arranged by Wire Number

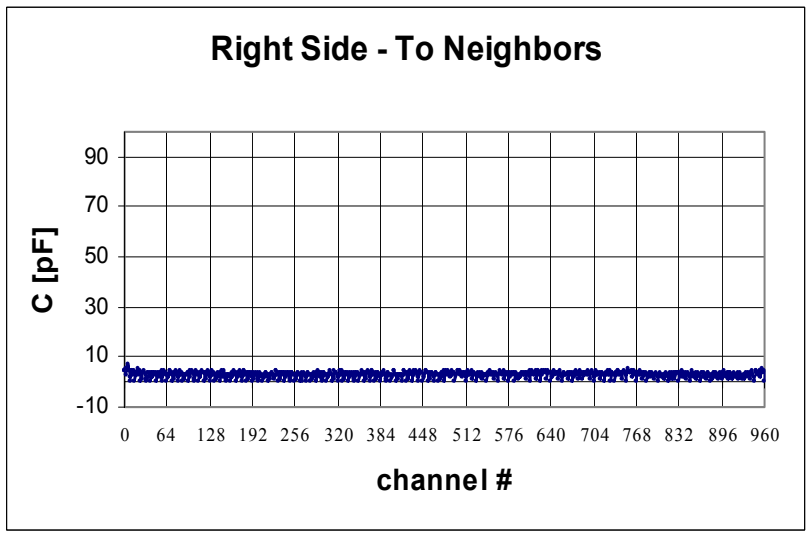


CAPACITANCE – CHAMBER #1

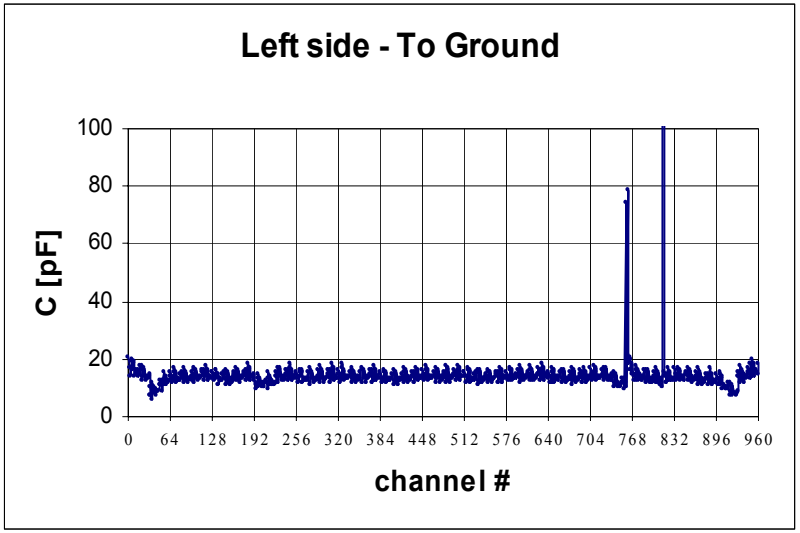


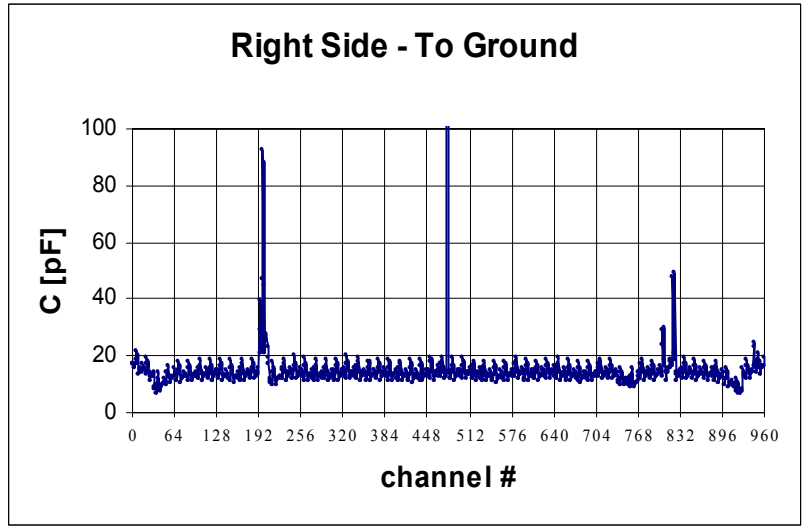


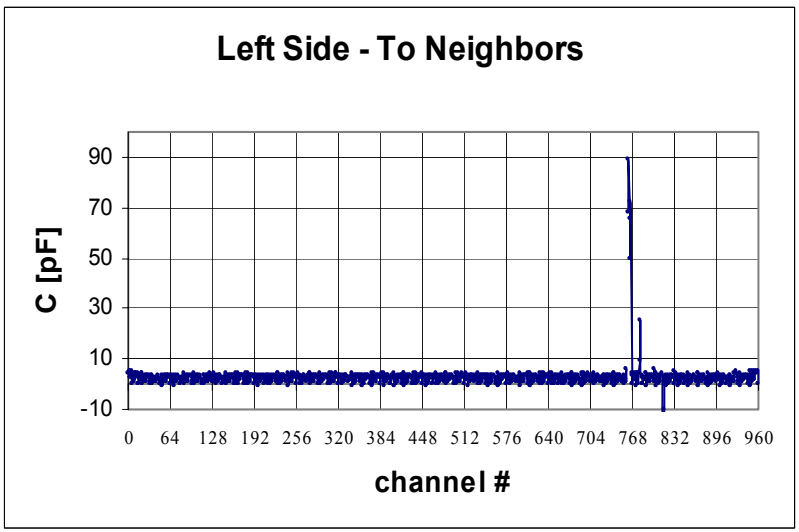


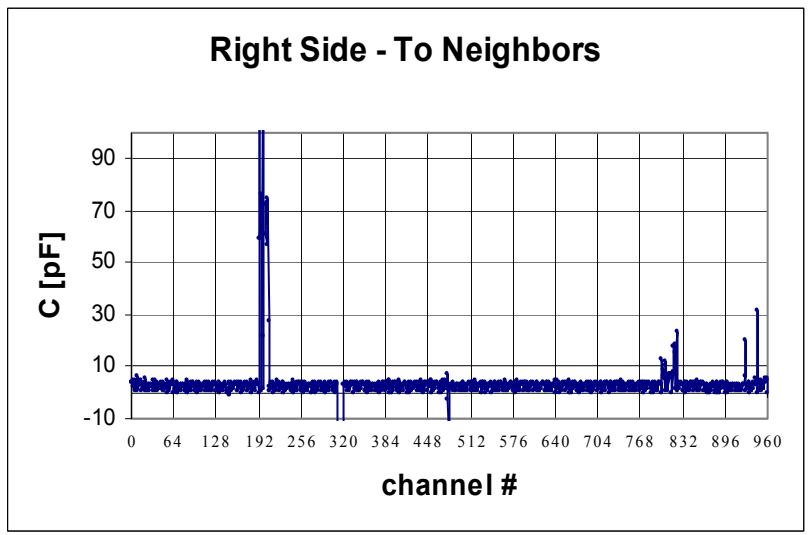


CAPACITANCE – CHAMBER #2

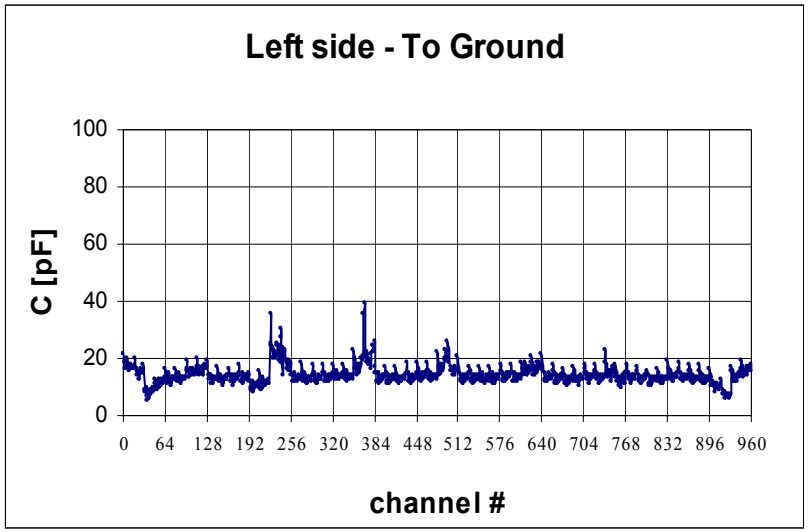


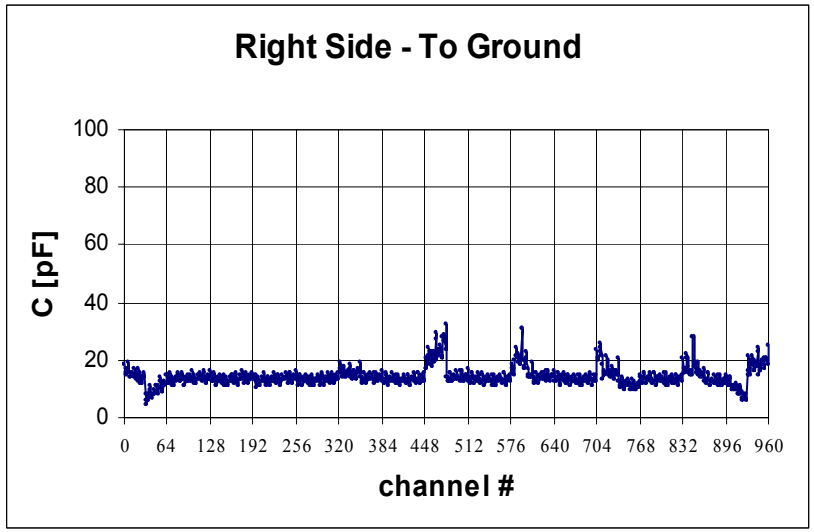


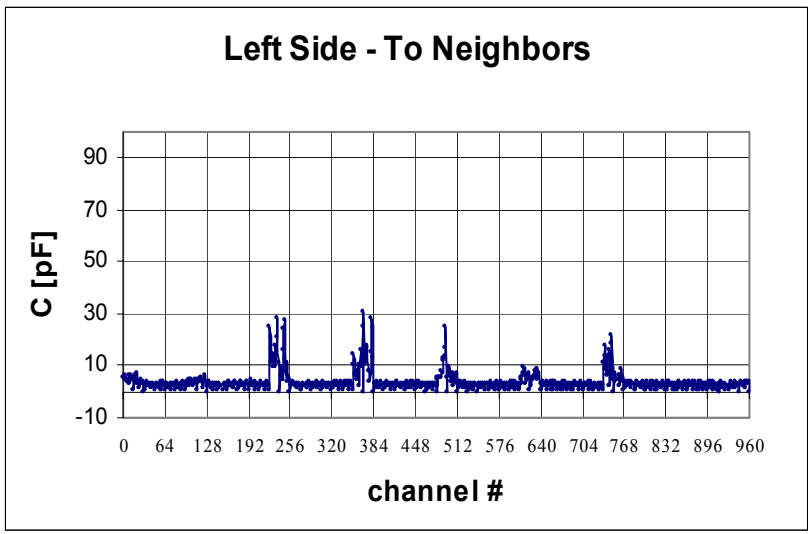


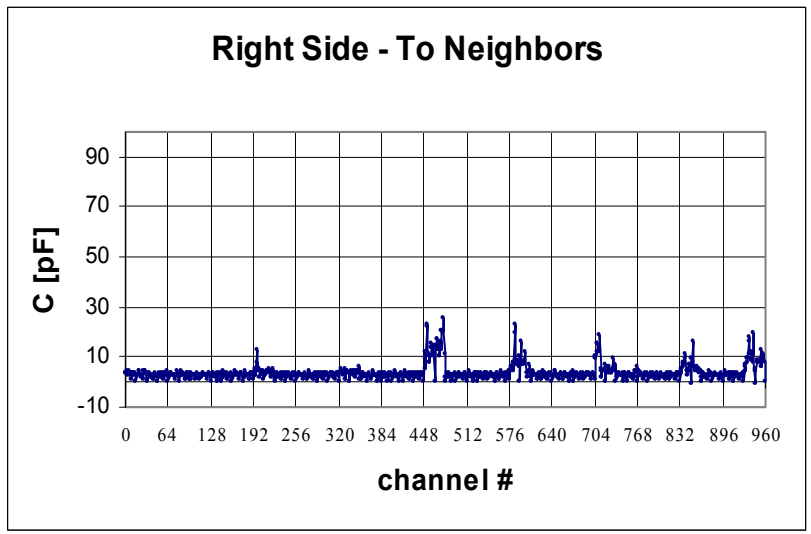


CAPACITANCE – CHAMBER #3

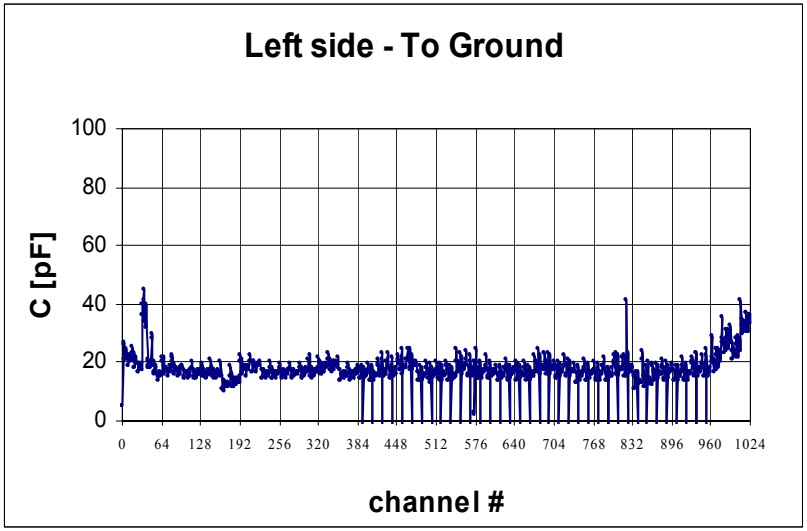


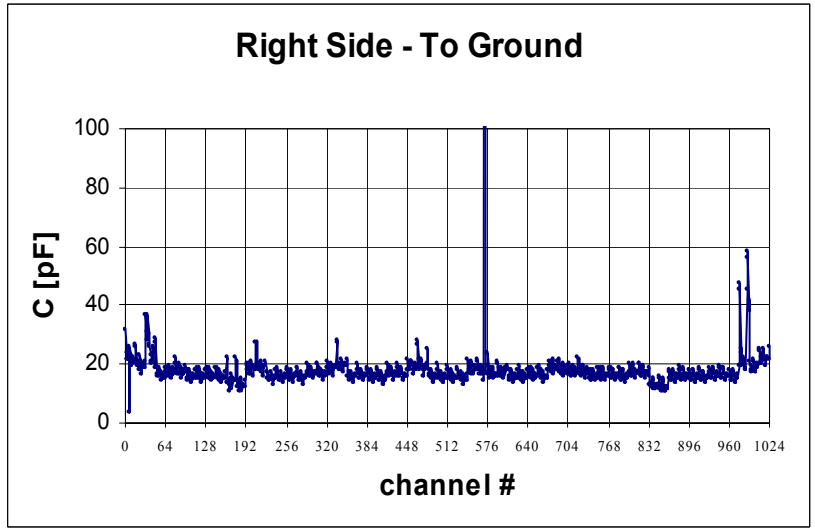


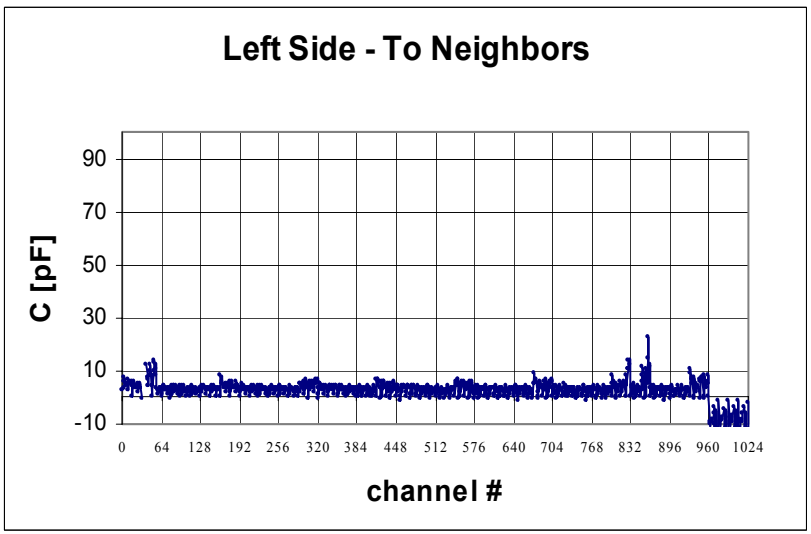


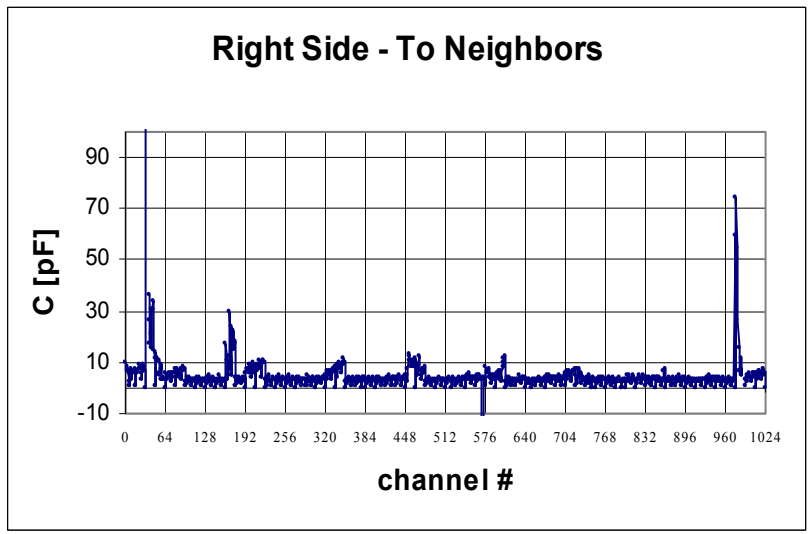


CAPACITANCE – CHAMBER #4

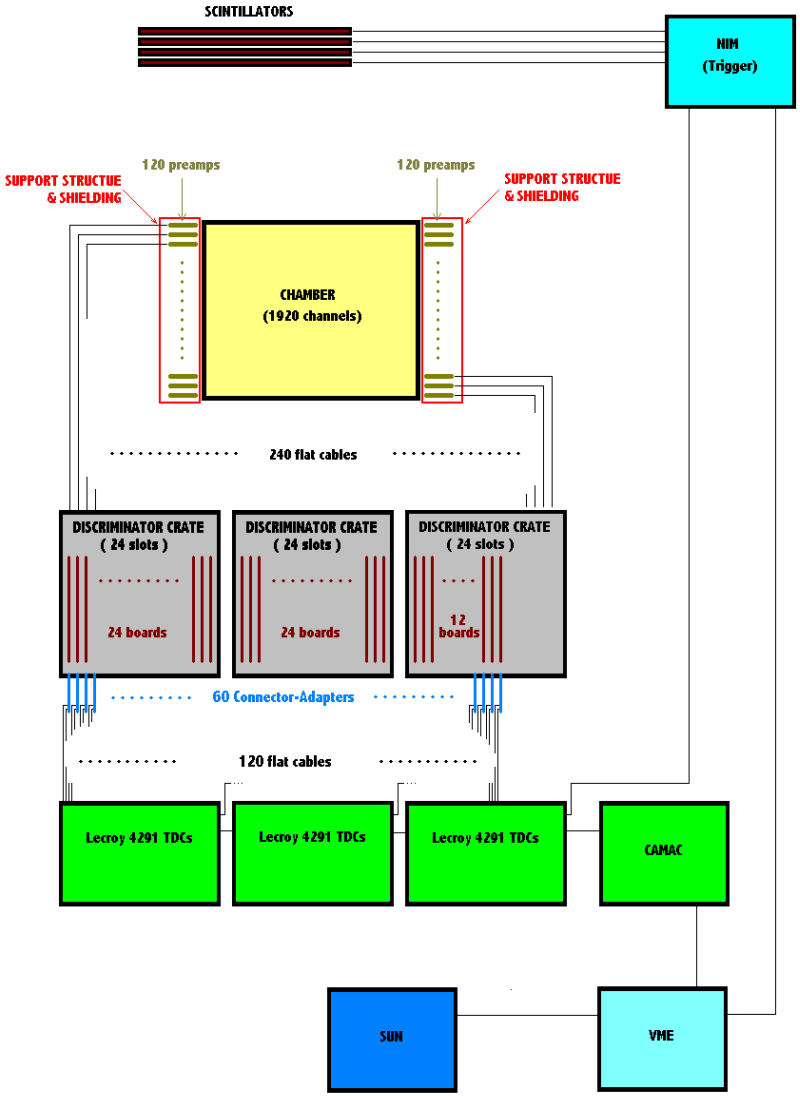




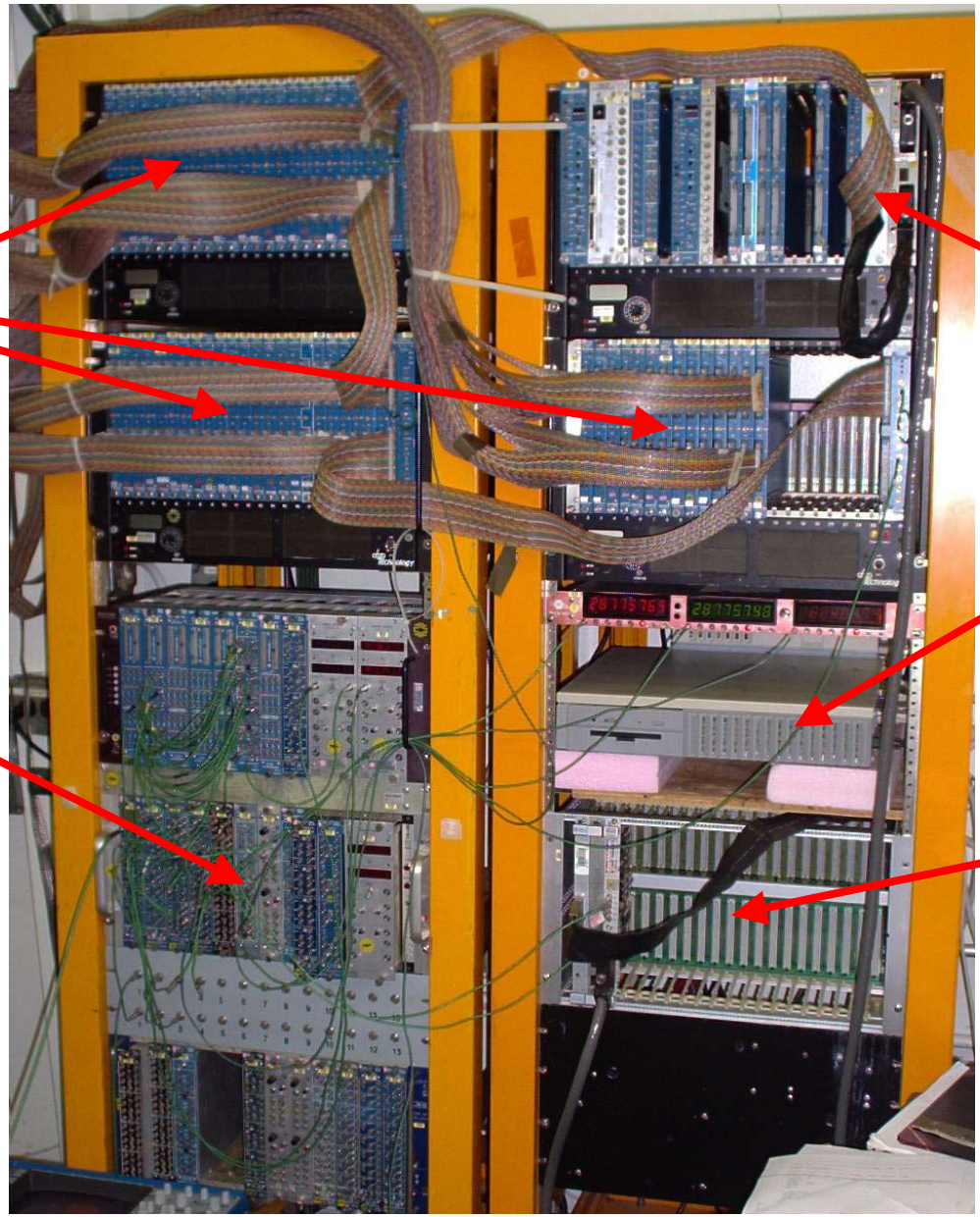




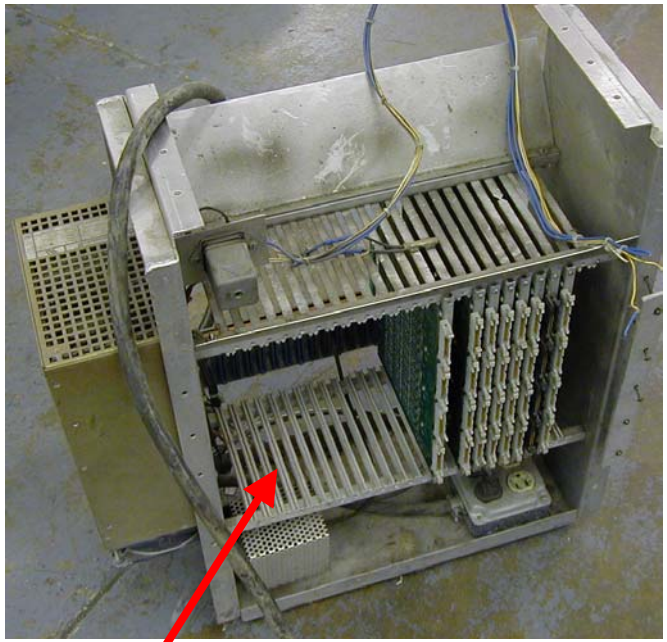
COSMIC RAY TEST SETUP



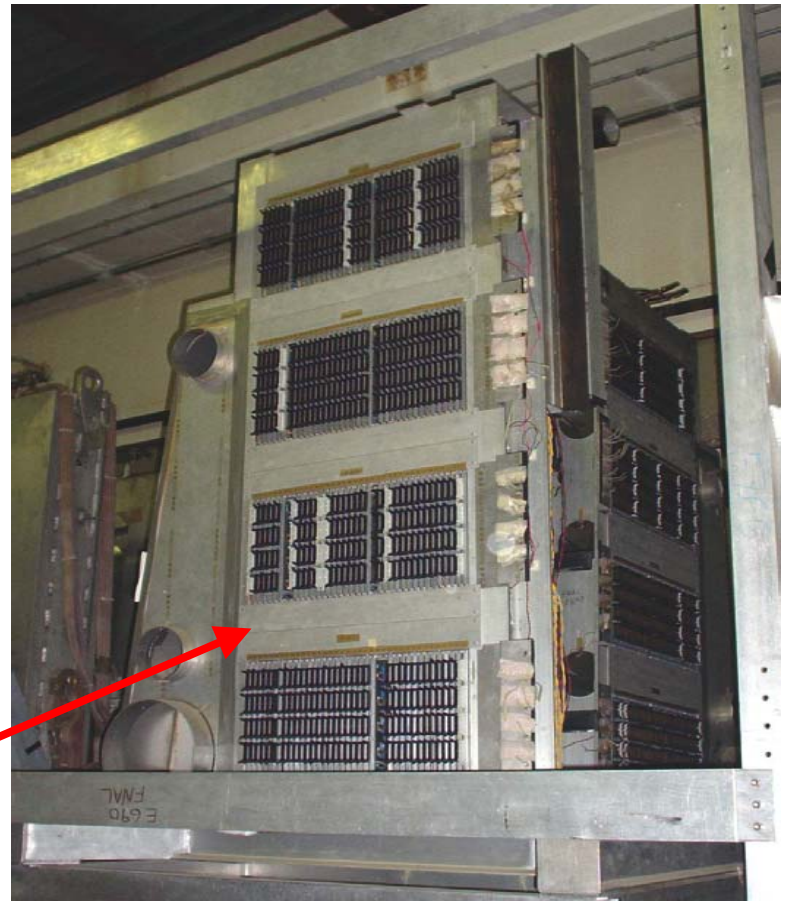
READOUT ELECTRONICS



DISCRIMINATOR CRATES

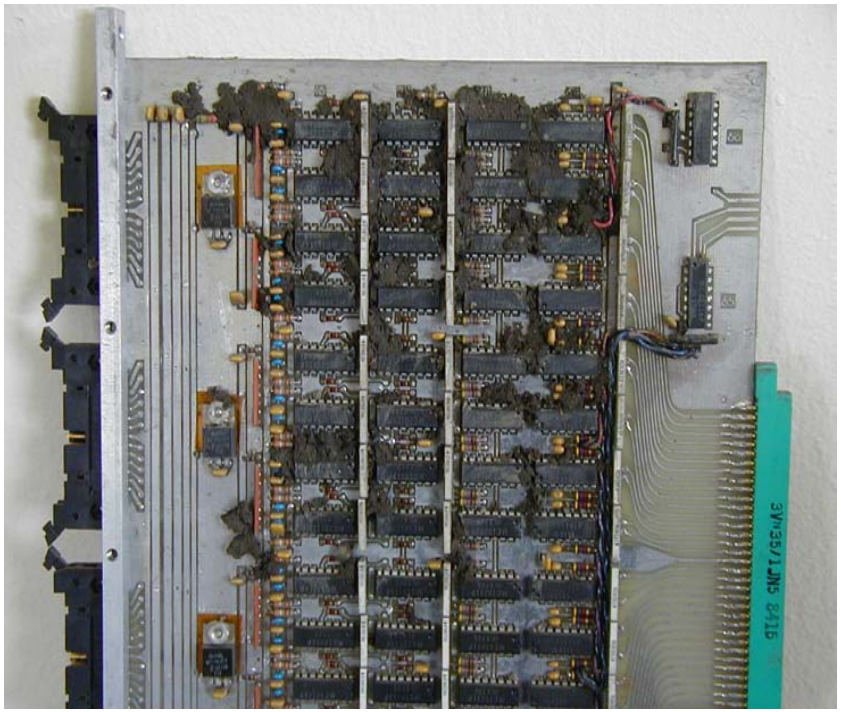


TEST



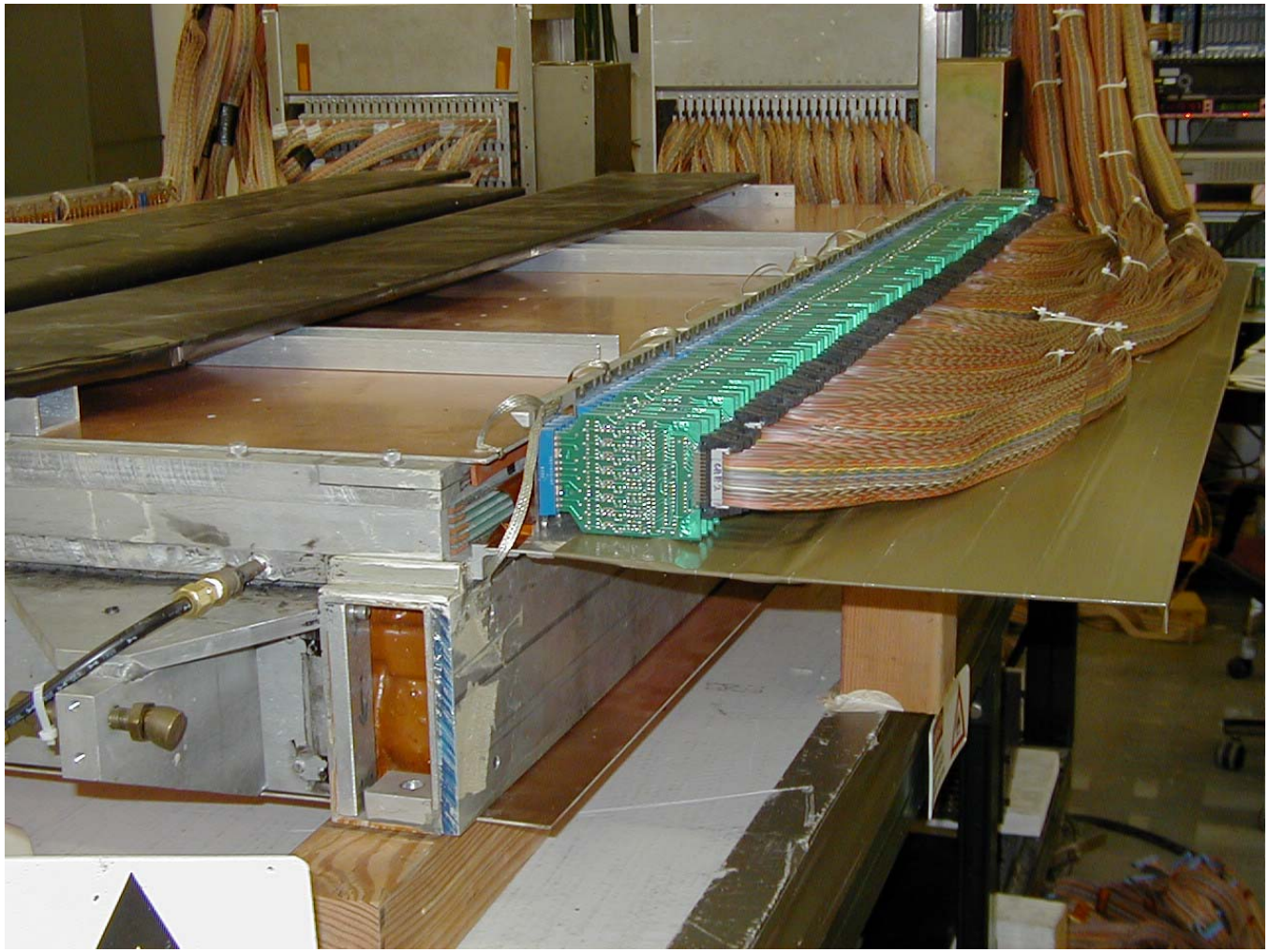
EXPERIMENT

DISCRIMINATOR

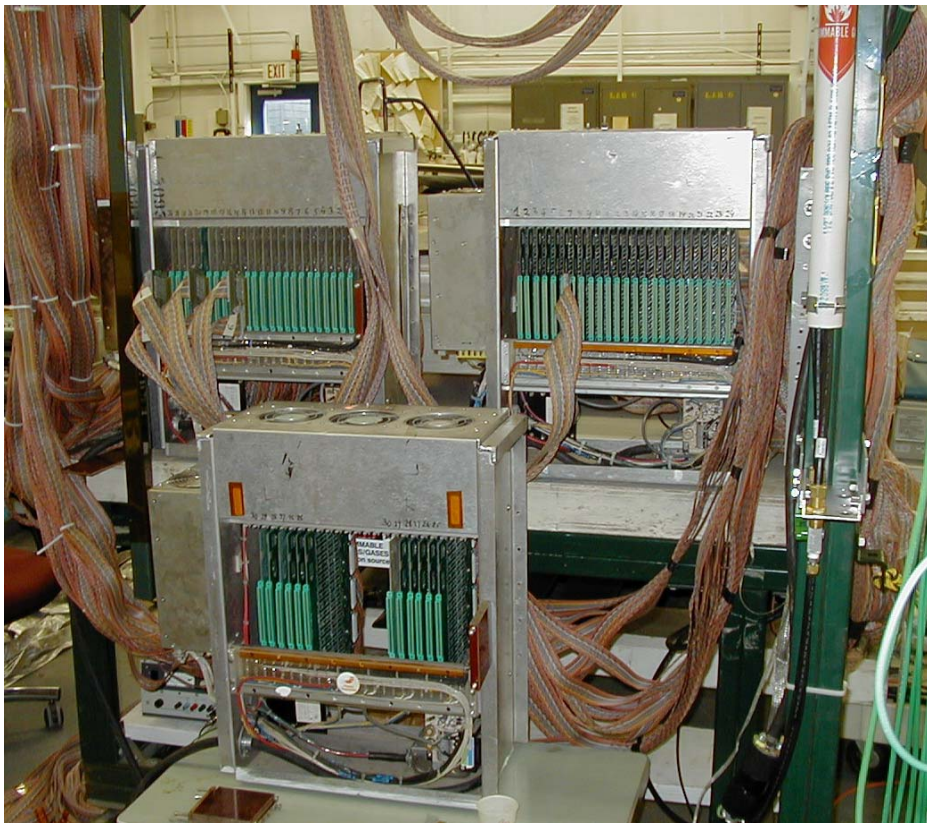


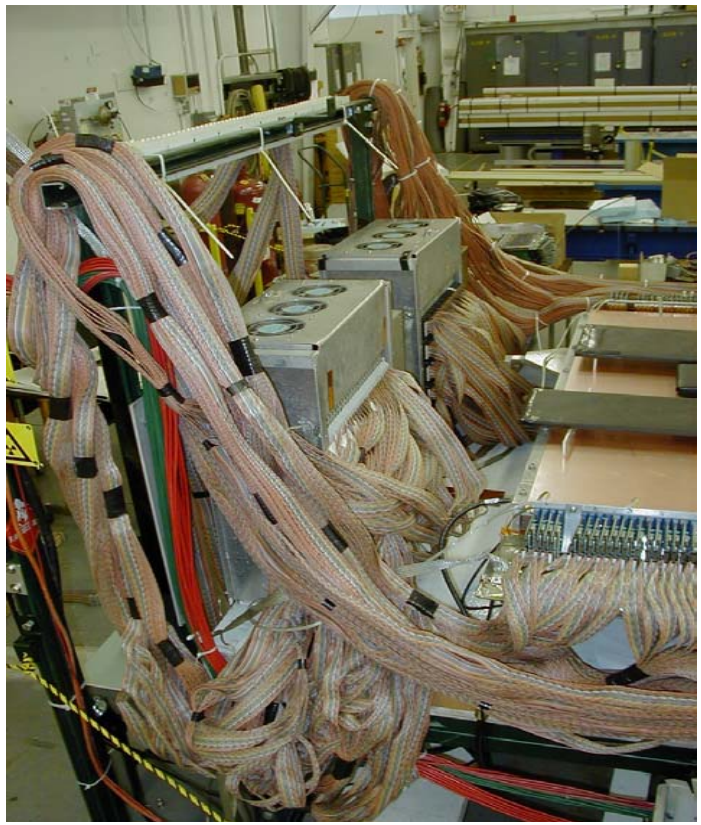
COSMIC RAY SETUP

PREAMPLIFIERS (“home made” support)

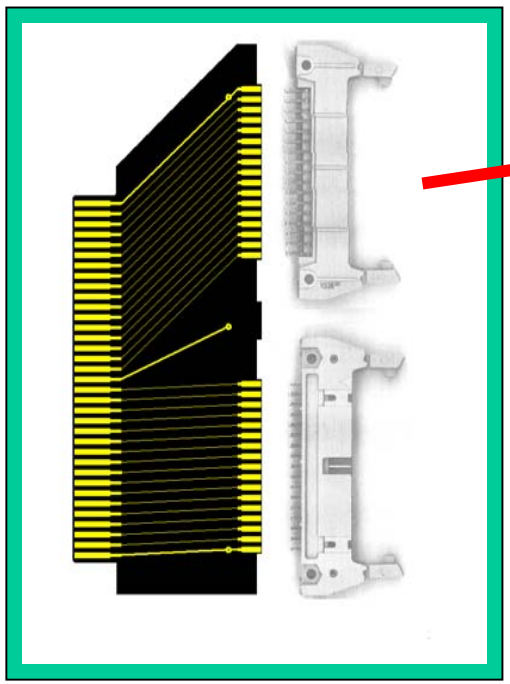


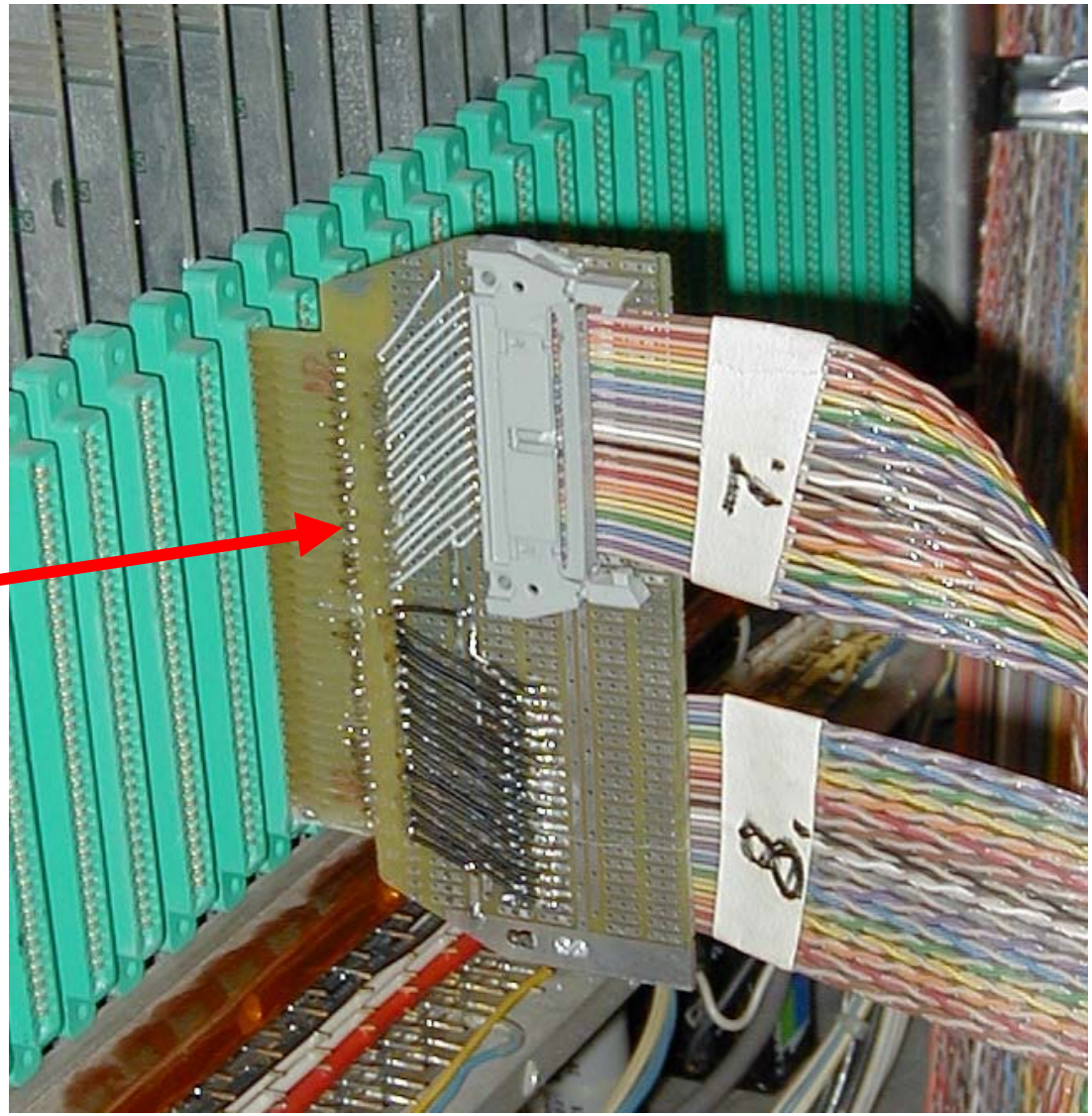
DISCRIMINATOR CRATES



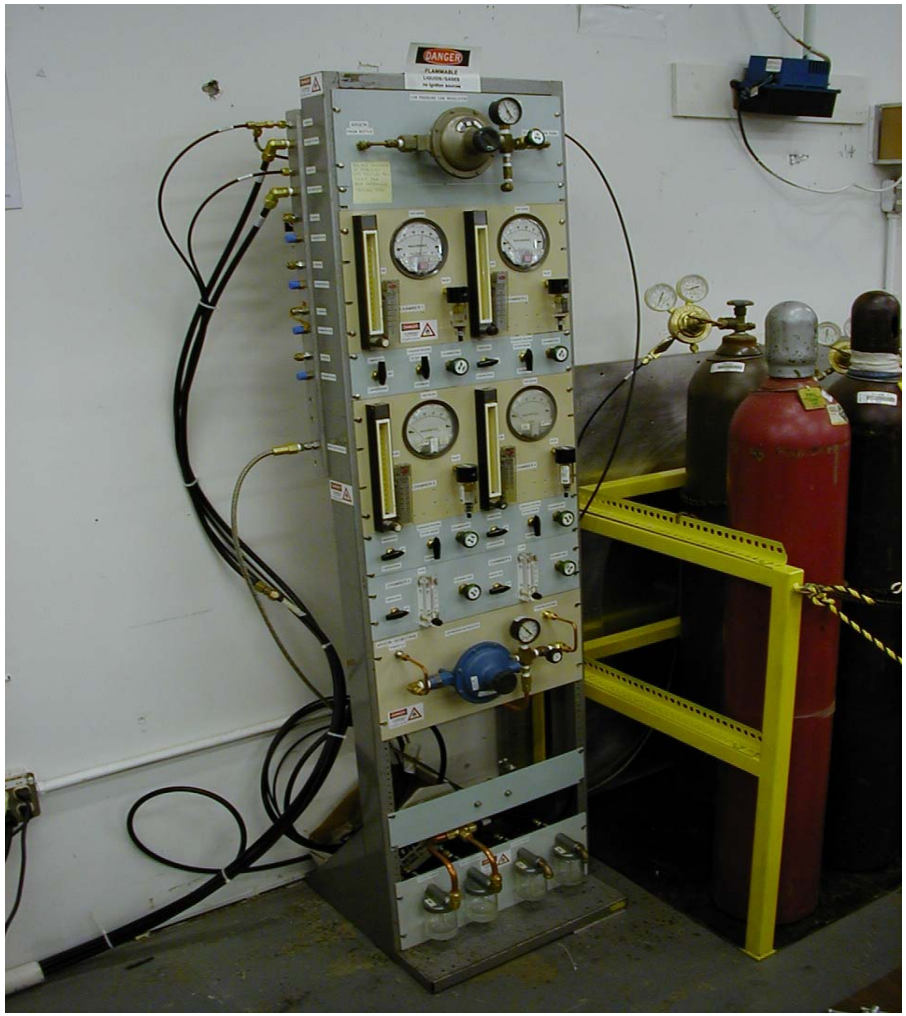


DISCRIMINATOR-TO-TDC CABLE ADAPTER

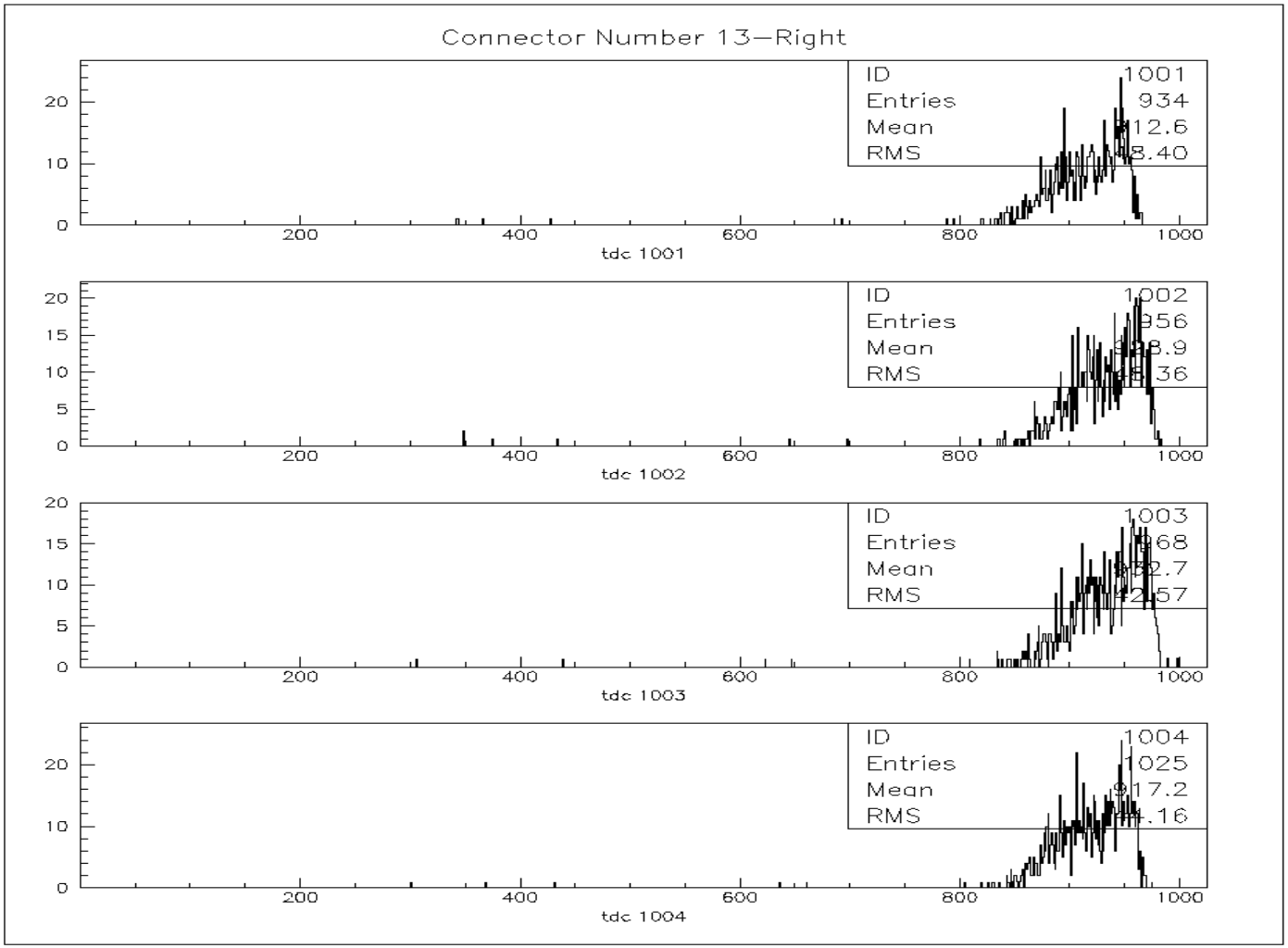




GAS SYSTEM (by D. Northacker)



TDC (on-line) HISTOGRAMS



CONCLUSIONS

- **CHAMBERS:**

  #1 – UP TO NOW OK. READY FOR TEST WITH COSMICS.

  #2 – TESTED UNDER HV, SPARKS. CAPACITANCE MEASUREMENTS SHOW SHORTS TO GROUND AND BETWEEN WIRES

  #3 – LOOSE WIRES, SHORT BETWEEN WIRES

  #4 – LOOSE WIRES, SHORTS TO GROUND AND BETWEEN WIRES, MISSING WIRES/CONTACTS

  CHAMBERS #2, #3 AND #4 NEED TO BE OPENED

- **COSMIC TEST IS READY,WAITING FOR CABLE ADAPTERS**