

# TOF Report, 9 Aug 2003

## I. TOF wall status

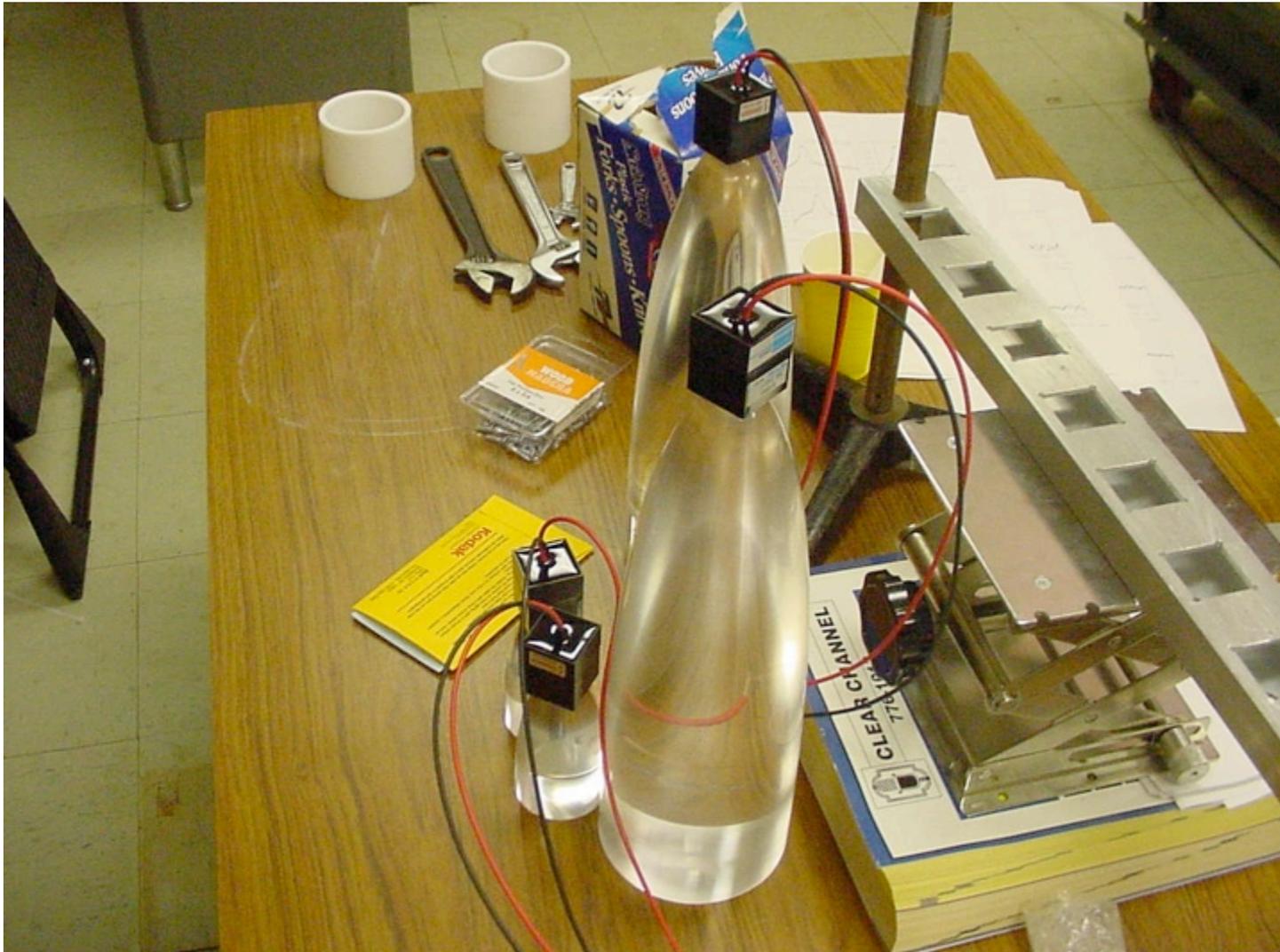
- A. Picture show
- B. Tallies and projections
- C. Mirror plate “mounting hooks”
- D. Electronics

## II. T0 counters

- A. Design / prototype (picture)
- B. Status
- C. Signal delivery





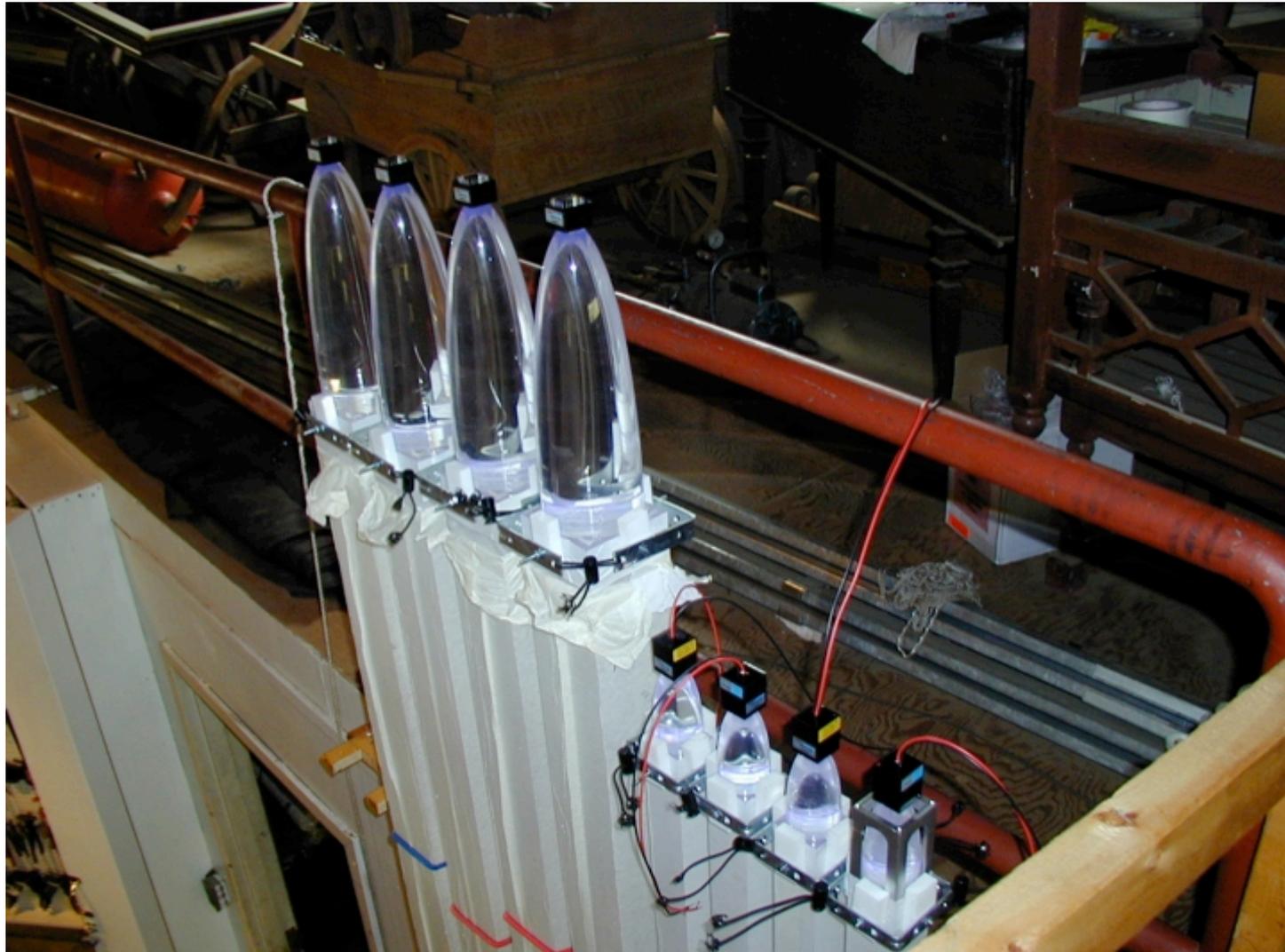


MIPP Collaboration Meeting  
9 Aug 2003











# Tallies & Projections

- Completed as of yesterday:
  - 12 large bars
  - 8 small bars
- Estimated time to completion
  - Large bars (1st installment): 13 Aug.
  - Small bars: 22 Aug.
  - Large bars (2nd installment):  
When funds become available.

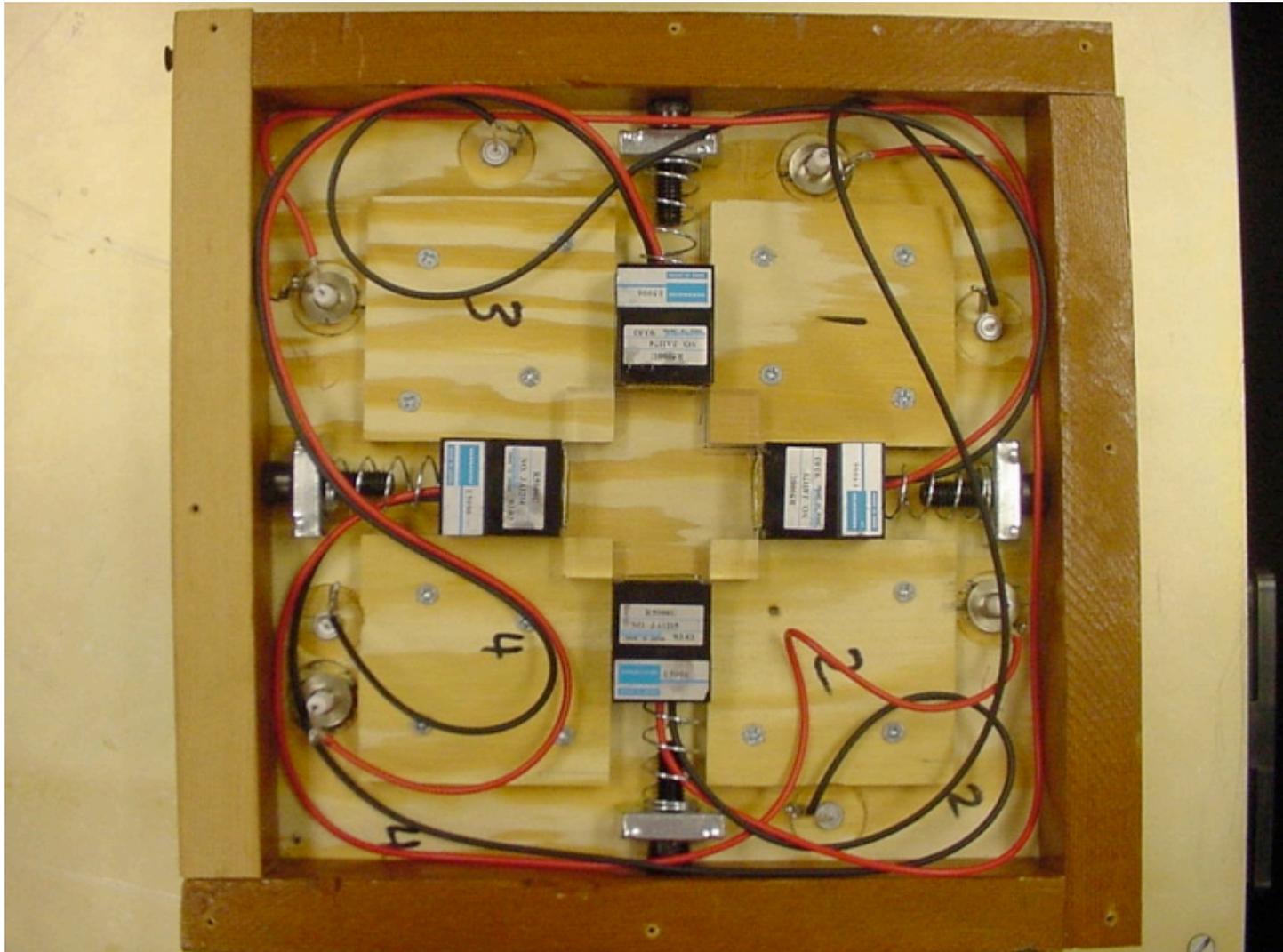
# Mirror Plate Mounting Hooks

- Design of module support is essentially complete (thanks Jim/Gary), and the design has Carolina concurrence (yesterday).
- Electronics racks are in position exactly where Carolina requested.

# TOF Electronics

- “Cross talk” in PS7106 discriminators (reported in May) is greatly reduced in the LeCroy 4415A discriminators. We will use 4415As in the experiment!
- “Weak” capacitors on TDC’s replaced at Carolina expense.
- Patch panels
  - Will reuse patch panels prepared for DONUT (380 channels)
  - But 2 channels --> 1 channel.
  - Board rework estimated at 5 days effort.

# T0 Counter Status



# T0 Counter Status

- Achieved so far: 100 ps with BC408 and no light guide.
- BC408 with light guide now under test.
- BC422 is allegedly superior but is expensive.
- Cerenkov prototype makes suitable pulses, but measuring resolution is a challenge because of high sensitivity to particle direction. Still promising.

# T0 Counter Status

- Current plan for signal transport for T00
  - Discriminate near the PMT
  - Transport digital signals on fast cable to TDCs in the vicinity of the target.
  - At least 4, at most 6 such signals to transport.

# Financial Developments

- Pre-application to DOE's EPSCoR State – National Laboratory Partnership Program advanced to the proposal stage.

*Finis*