

MIPP Time of Flight

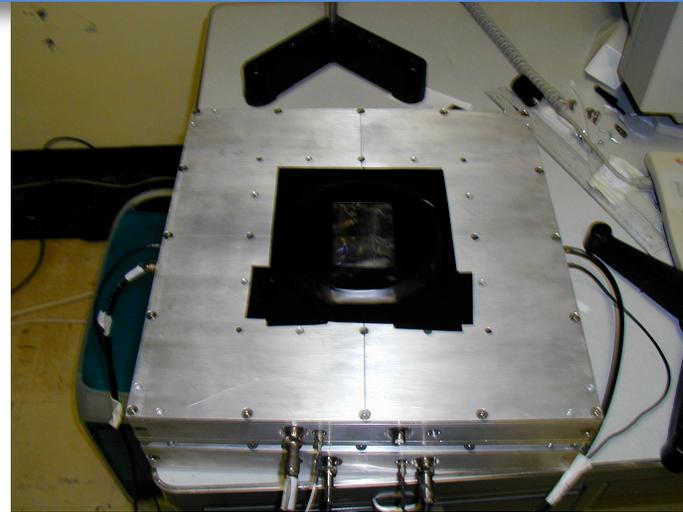
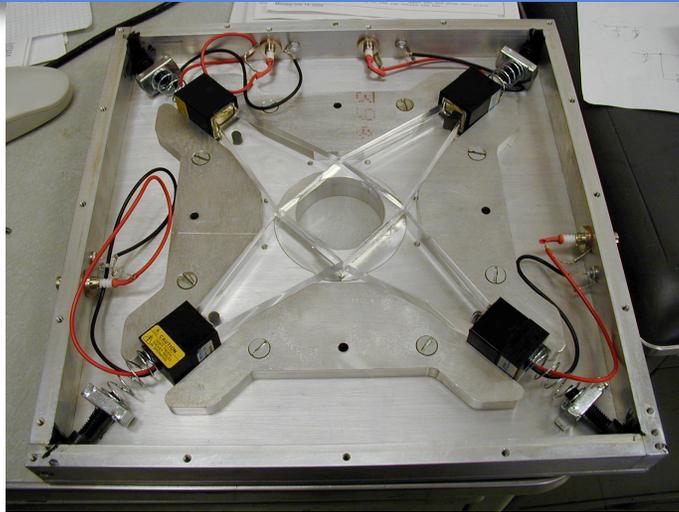
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TOF Wall



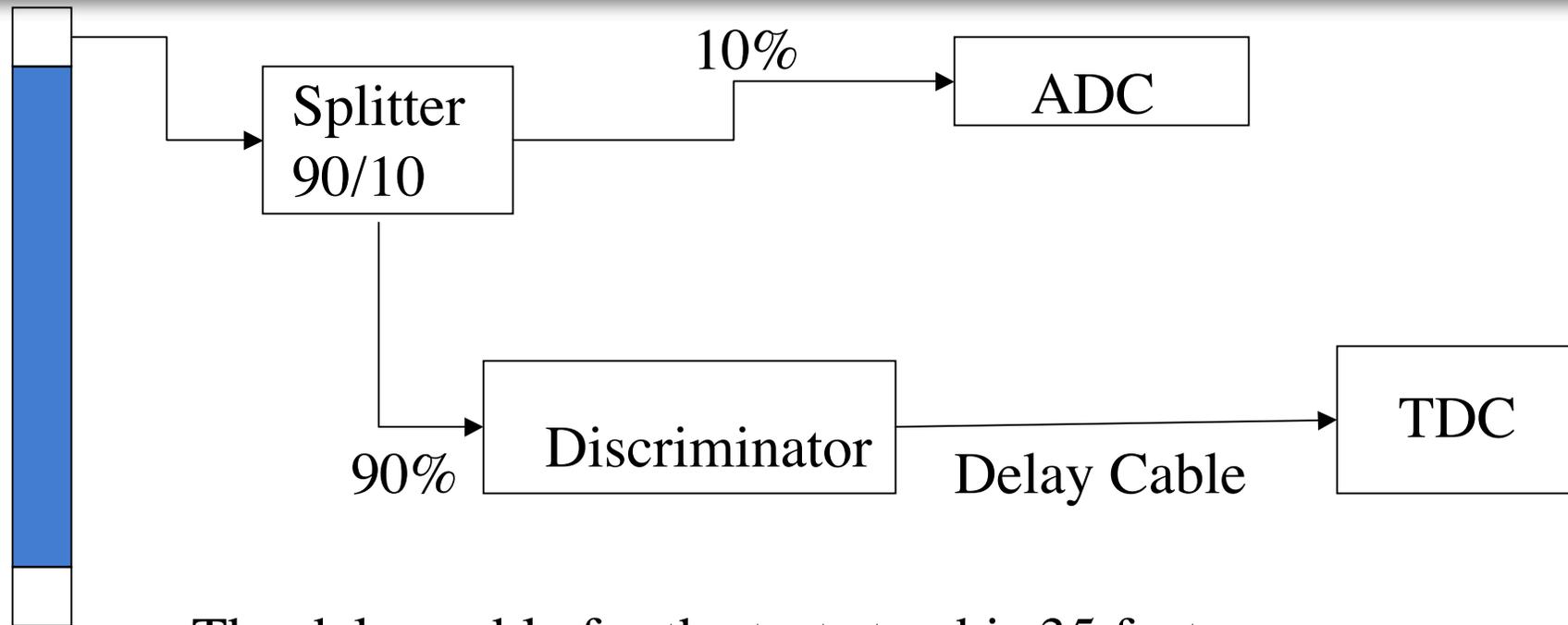
- Horizontal Calibration Bars are installed
- 38 Small bars are up
- 12 Large bars up
- 2 center bars are at USC
- 2 West large bars are at USC
- TOF is now 3.4m not 5m
- No money for other large bars
- EPSCOR grant still unknown.

T0 Counters



- 6cm square T0 counters are here and tested
- Smaller counters are being tried, currently they don't give same resolution.
- Mounting Stands are being made.

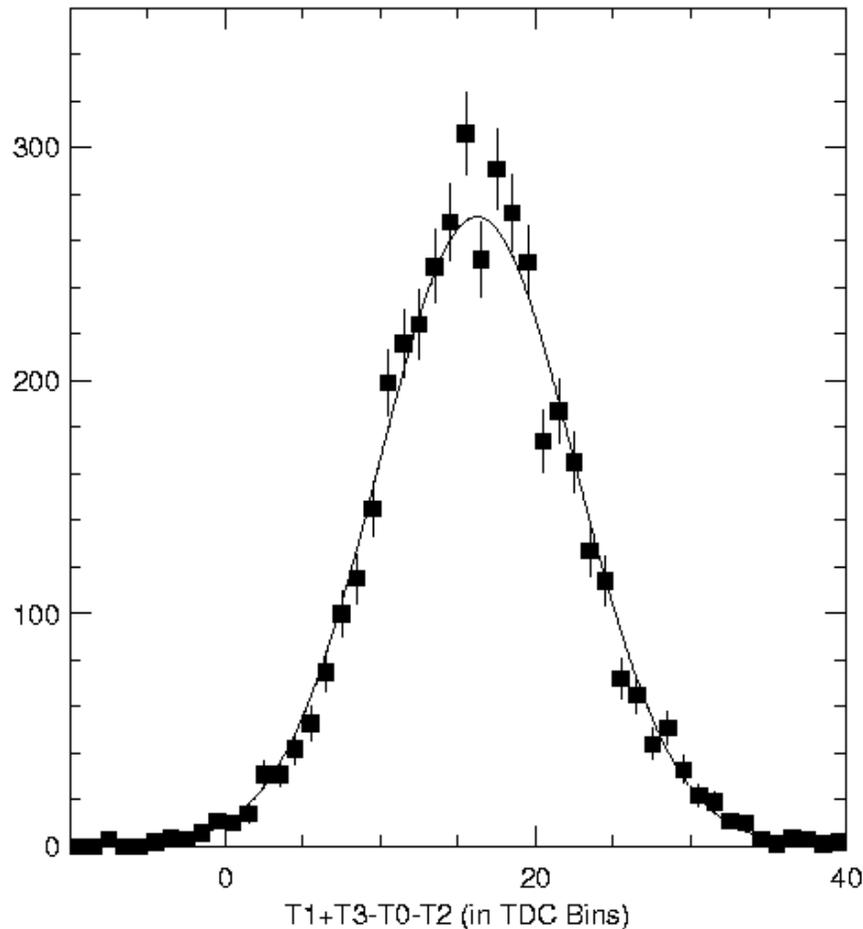
TOF Test System



The delay cable for the test stand is 35 feet.

We have used the same type of electronics in the test stand except the ADC.

T0 Resolution



- Resolution measured with cosmic rays.
- Measured as:
 $(t1+t3 - t0 - t2) / 4$
- Expected resolution obtained from average of all four in experiment
- 47 ± 5 ps resolution
- 55 ± 5 ps resolution in other counter

Cabling the System

Signal Cables:

Patch Panels are here

Cables Identified.

Top half labeled for installation

Work will continue next week with Carl here.

High Voltage Cables
No Cable Ends

Perhaps there are some 50' Cables available

HV Main Frame Not here

CAMAC & DAQ Interface

- We now have crates installed but not yet on the branch readout.
- CAMAC Modules are in CAMAC Crates and Racks on side of ROSIE.
- Talked with Andre and copied copiously from the CKOV readout.
- In progress -- First Pass Done but needs testing.
- Can read out TDC from test programs.
- Need to work on Connection Map after cabling is finished

T0 Resolution with Longer Cables

We use the T0 test setup to measure the effects of longer cables between the discriminator and the TDC.

Longer cable seems to have an effect on the time resolution. We will have to measure the effects on the TOF wall.

| | | |
|-----------------|---------|----------|
| Length of Cable | 35 Feet | 100 Feet |
| T0 Counter | 50 ps | 70 ps |
| Pulser Input | 30 ps | 45 ps |