

A stack of papers is shown in a perspective view, fanned out from the bottom right towards the top left. On top of the stack is a globe with a grid of latitude and longitude lines. The entire scene is rendered in a light gray, embossed style against a white background.

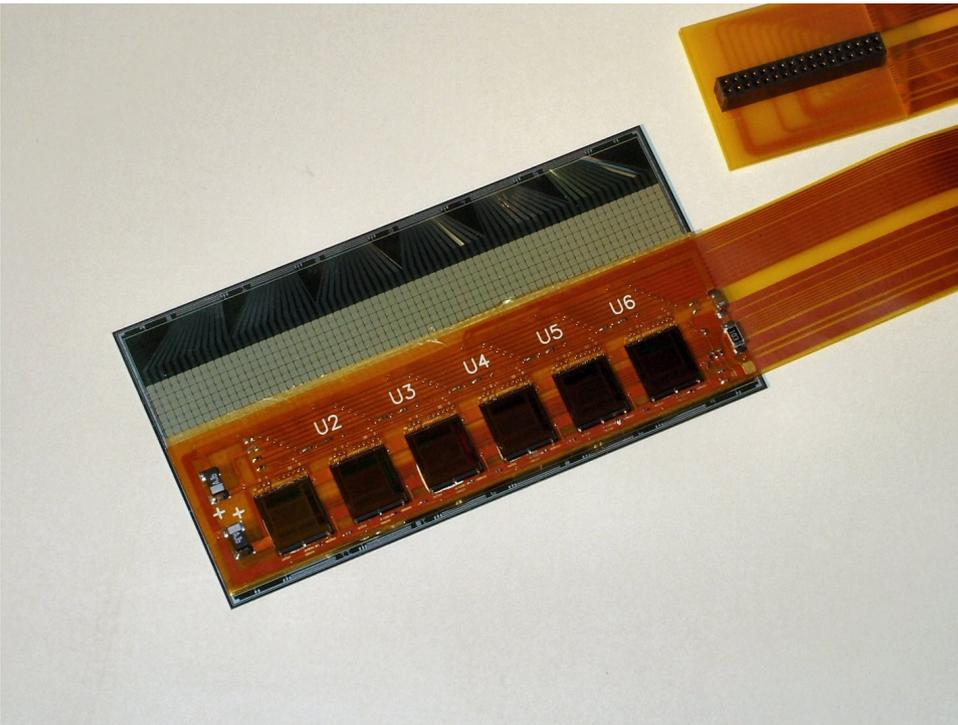
FGT/IST Work Coordination Meeting

**Gerrit van Nieuwenhuizen
Bates, Jan. 8, 2009**

Agenda

- **Bonding machine status, Dale**
- **IST prototype hybrids assembly, Dale**
- **APV readout system, transition card, Gerrit & Miro**
- **FGT and IST SolidWorks, Jim & Jason**
- **FGT full scale thermal model, Doug & Dale**
- **FGT thermal model DAQ, Gerrit**
- **FGT prototype sections, Jim & Jason**
- **GEM foils, Doug & Dale**
- **AOB**

The pre-prototype



1536 channel PHOBOS sensor

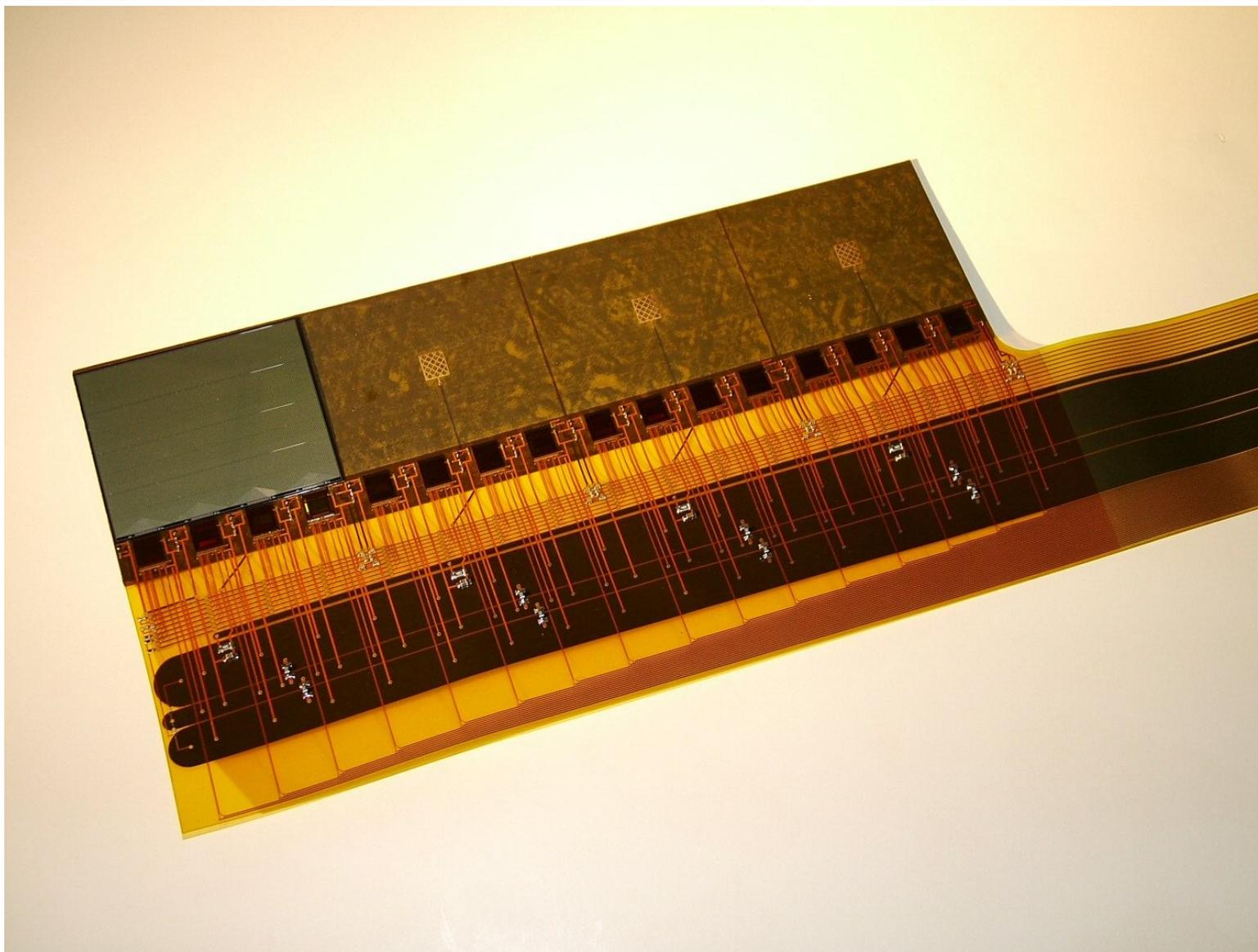
Kapton hybrid mounted directly on sensor

Difficult to assemble and doesn't gain you much in material budget

This will be a nice bonding test

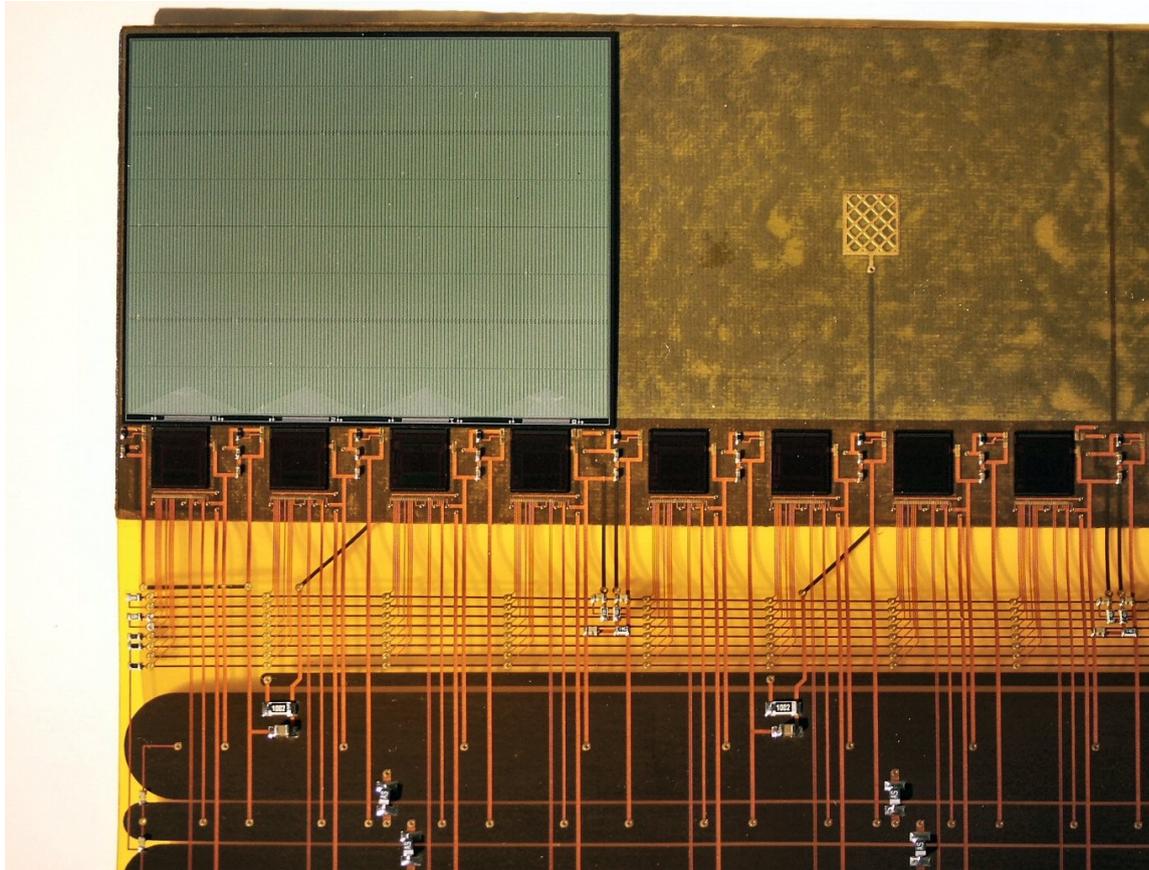
And a nice test module

The FY08 R&D hybrid



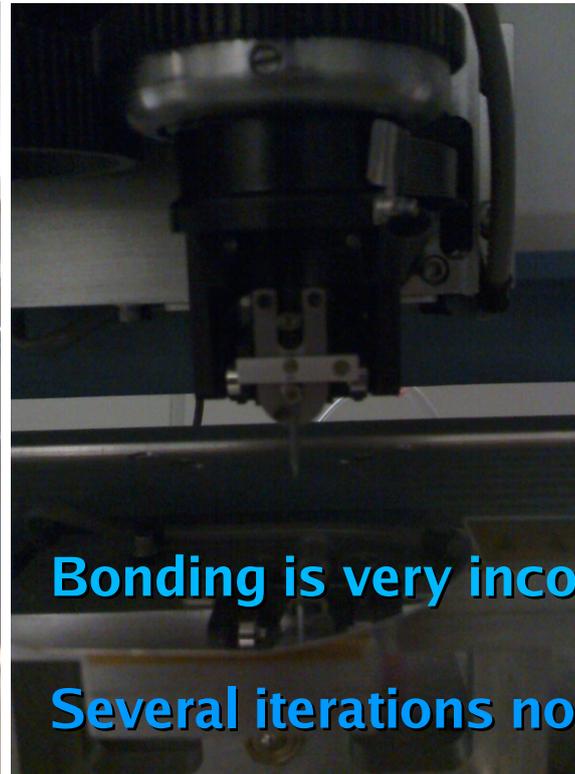
With 16 APV25-S1 chips and 1 PHOBOS IV sensor mounted

The FY08 R&D hybrid



**We have 2 CC backed hybrids
Using the available PHOBOS IV sensors we will be able
to make 1 module with 4 operational sensors
and 1 module with partial operational sensors
(not fully depleted sensors)**

Bonding machine



Bonding is very inconsistent

Several iterations now trying to repair

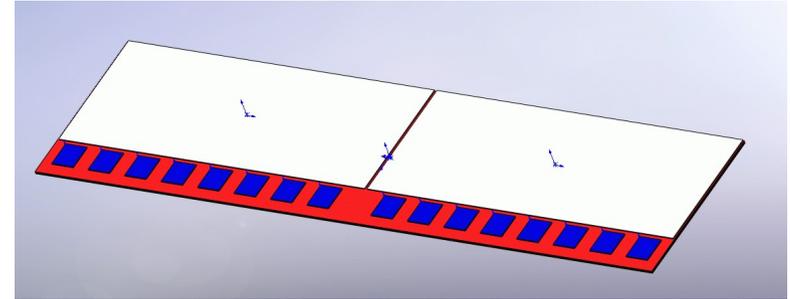
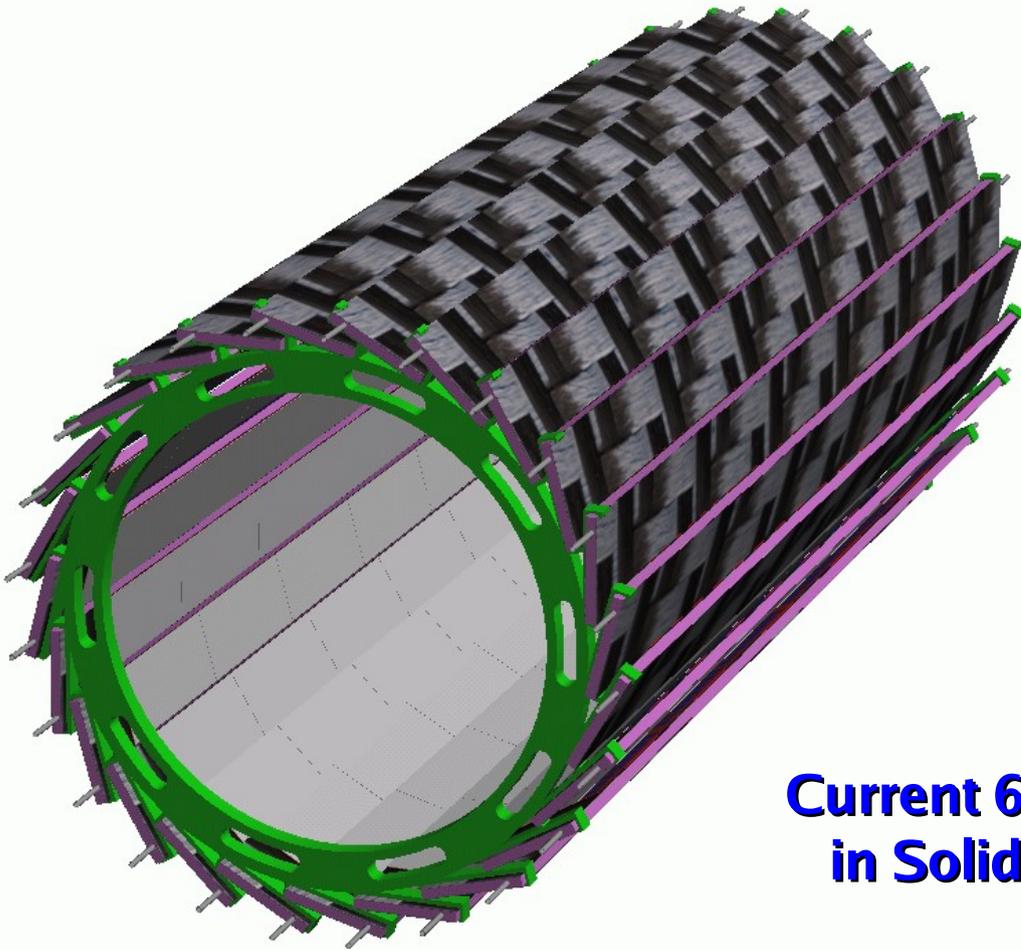
Ultrasonic generator replaced

Bonding head replaced (ruby pins)

Waiting for Palomar tech setup

Costs covered by service contract!

IST SolidWorks

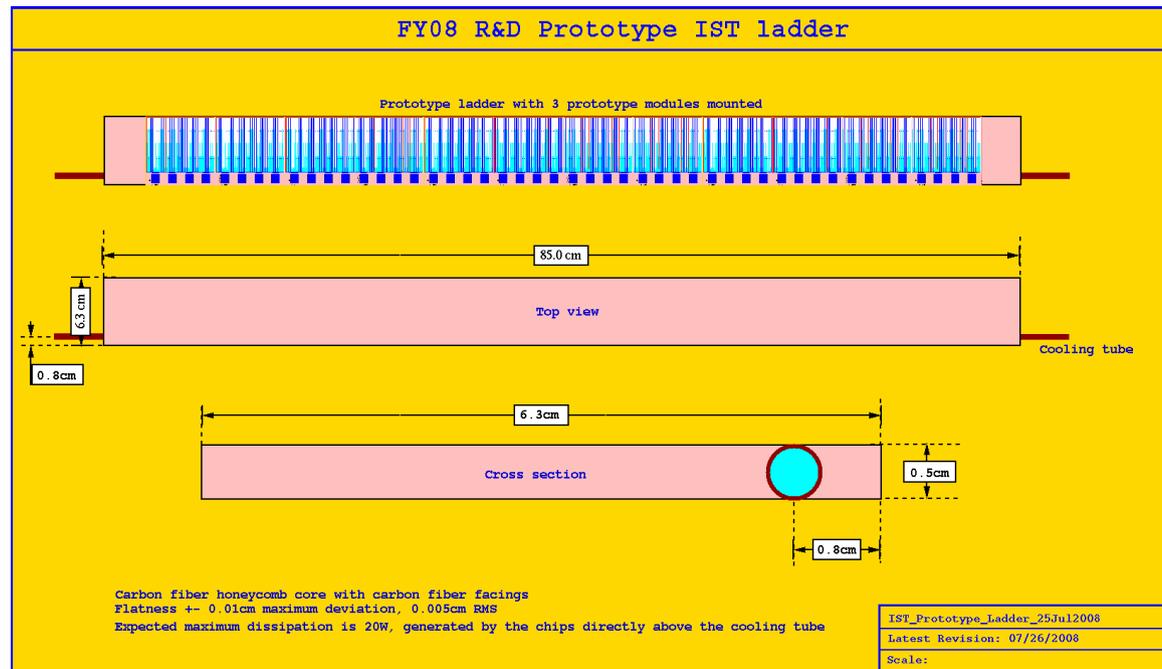
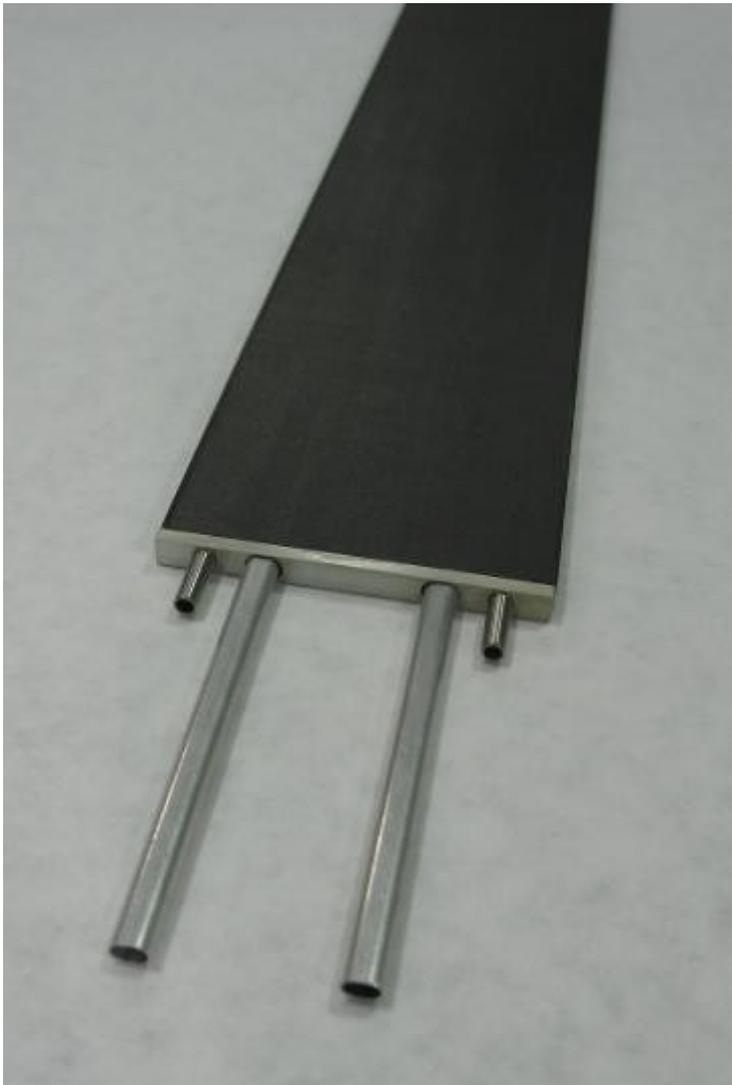


**Current 62cm long ladders implemented
in SolidWorks**

Studying the ladder support pieces

Gerrit comments to Jim.....

The FY08 R&D ladders



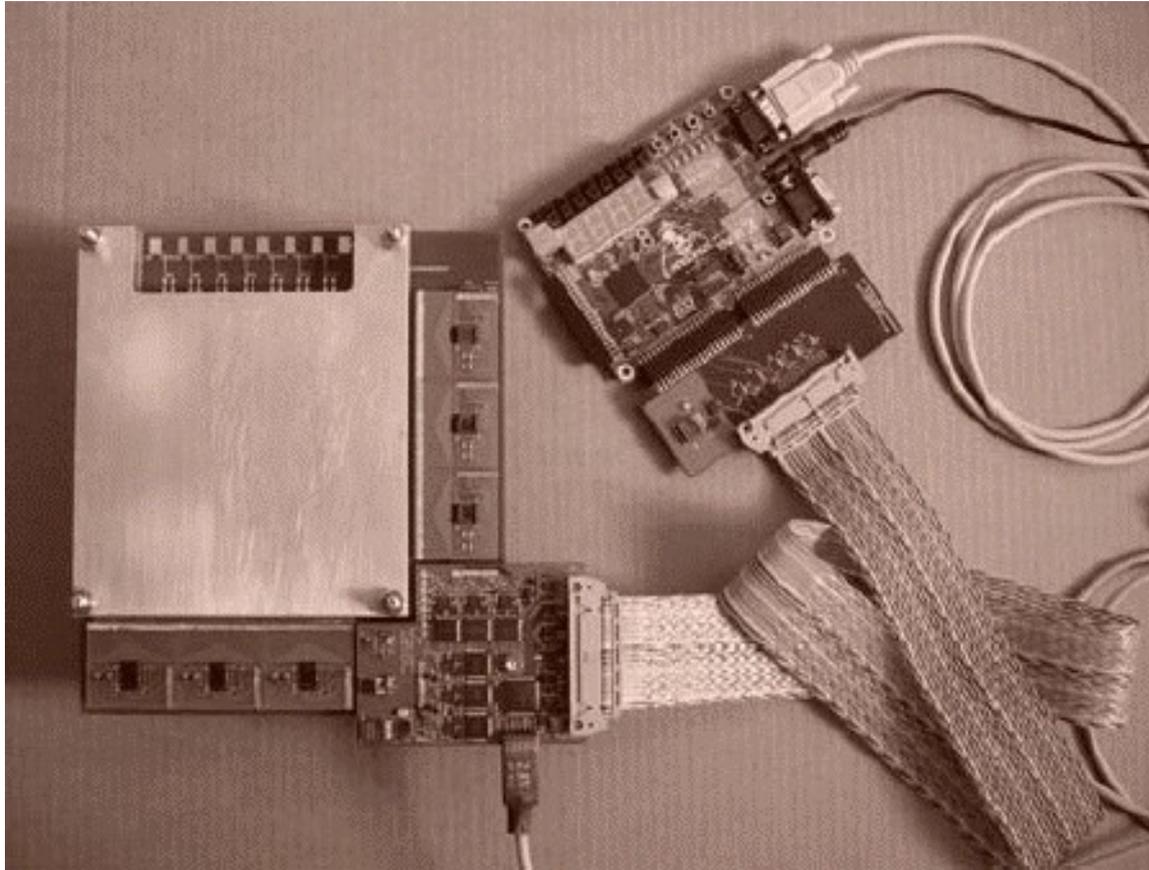
With 85cm quite a bit longer than the 61cm on paper and much longer than 42cm expected

Will provide nice mechanical test

And the possibility to mount the 2 hybrids and do some thermal tests

Currently 2 finished ladders being tested at LBNL

The FY08 R&D readout systems



No final prototype readout available

We have 2 test readout systems available

- 1 Windows/LabView based for tests at Bates**
- 1 Linux/LabView and Linux/Comedi based at BNL**

The FY08 R&D readout systems

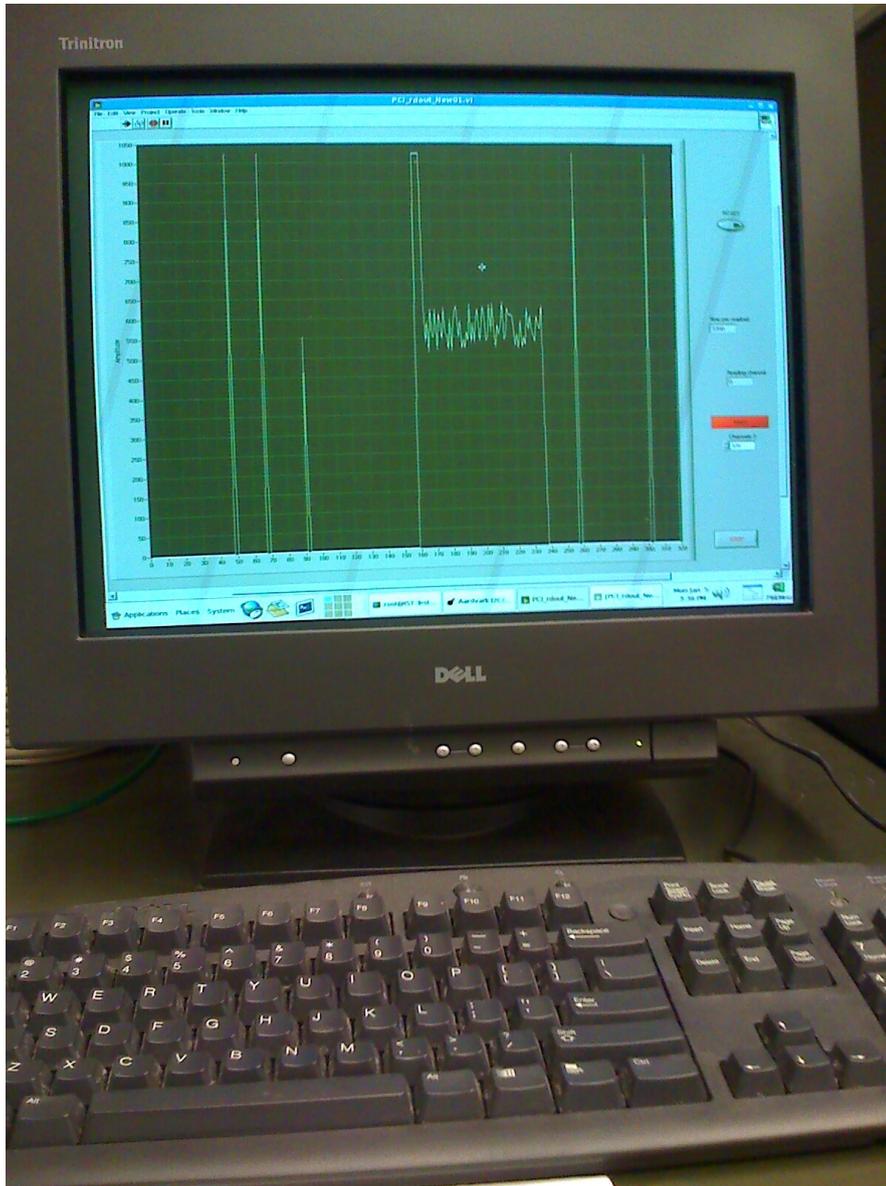


The FY08 R&D readout systems

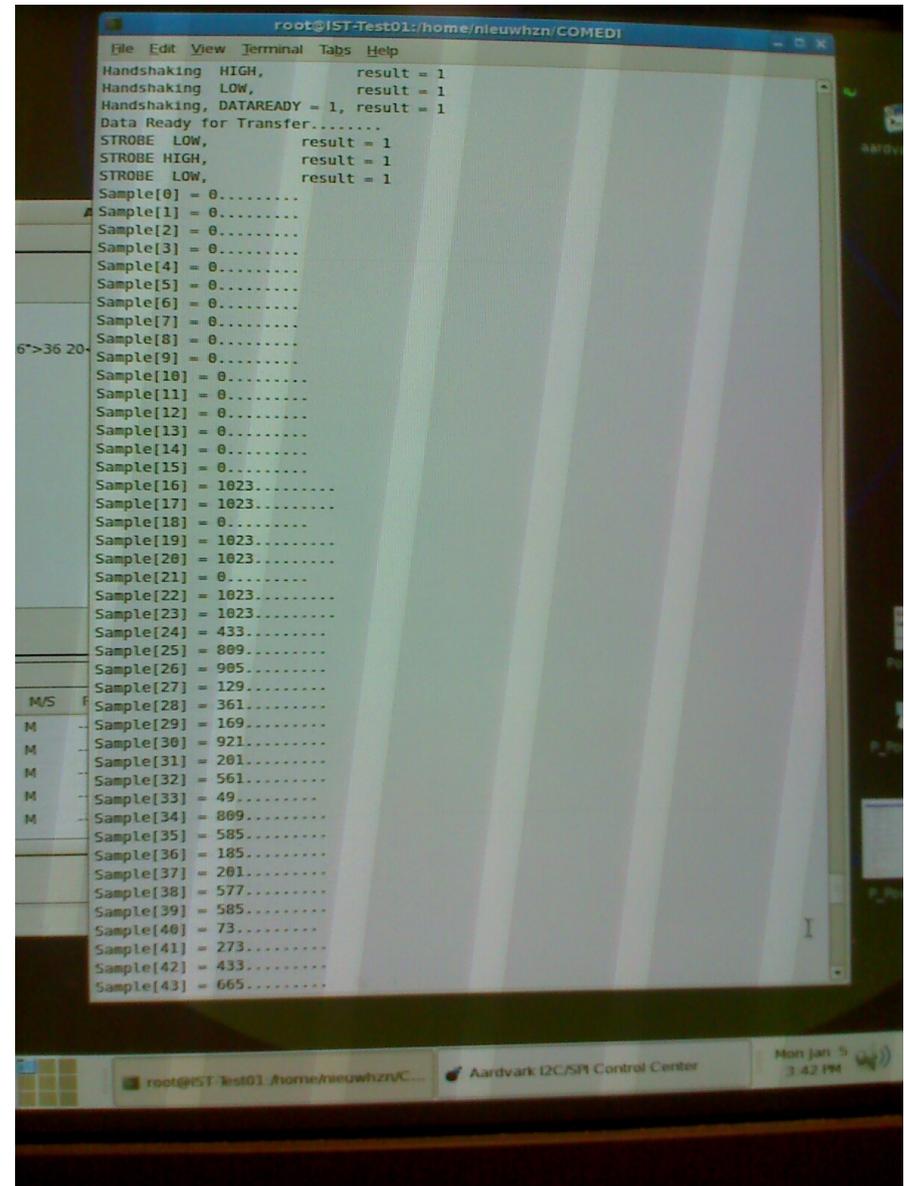


The FY08 R&D readout systems

Linux LabView Readout



Linux Comedi Readout



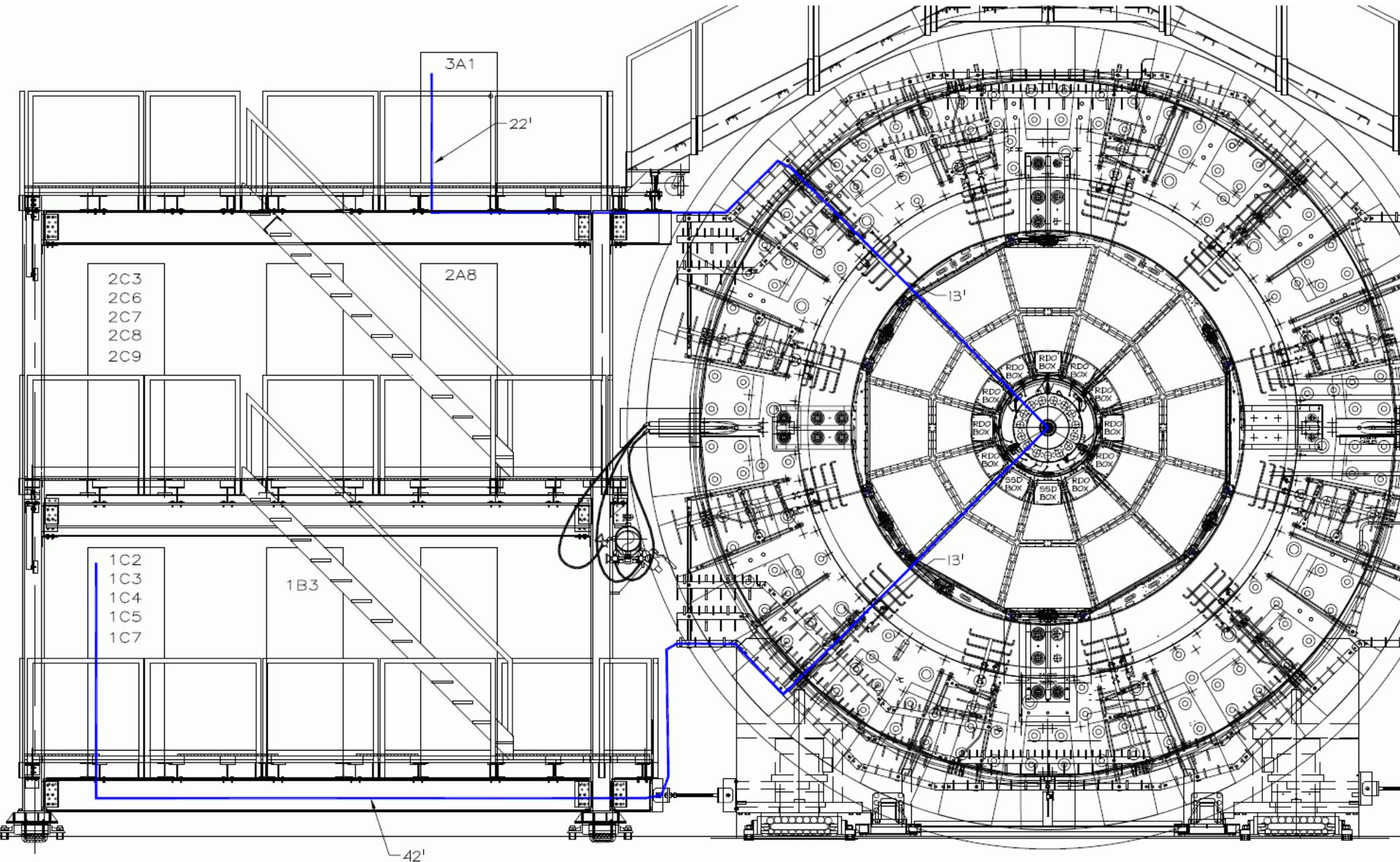
The FGT Thermal DAQ system



GPIB-ENET can only be IP configured through pre-Windows XP software!!!

Done, and then the LabView GPIB software destroyed my LabView readout system, back to 0....

FGT & IST in STAR



IST transition boxes



Old SVT RDO boxes

12 on East, 12 on West side

Comes with all mountings

And water cooling

Perfect for IST transitions