

A stack of papers is shown in a perspective view, fanned out from the top right towards the bottom 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 plain white background.

FGT/IST Work Coordination Meeting

**Gerrit van Nieuwenhuizen
Bates, Feb. 5, 2009**

Agenda

Feb 04, 09 11:04

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Tentative agenda:

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- Summary FGT Quarterly Review, Bernd
 - CD0/CD1 status HFT 'project', Steve & Gerrit
 - FGT construction and IST R&D funding status, Steve
 - Bonding machine status, Dale
 - APV readout system, cable drivers, Gerrit & Miro
 - FGT/IST cosmic ray test station, CTB's, readout, All
 - IST SolidWorks, Jim & Gerrit
 - FGT full scale thermal model, Doug & Dale
 - FGT thermal model DAQ, Rodolpho & Gerrit
 - FGT prototype sections, stretching jig, etc., Jim & Jason
 - GEM foils and inspection station, Dale & Doug
 - AOB

Bonding machine

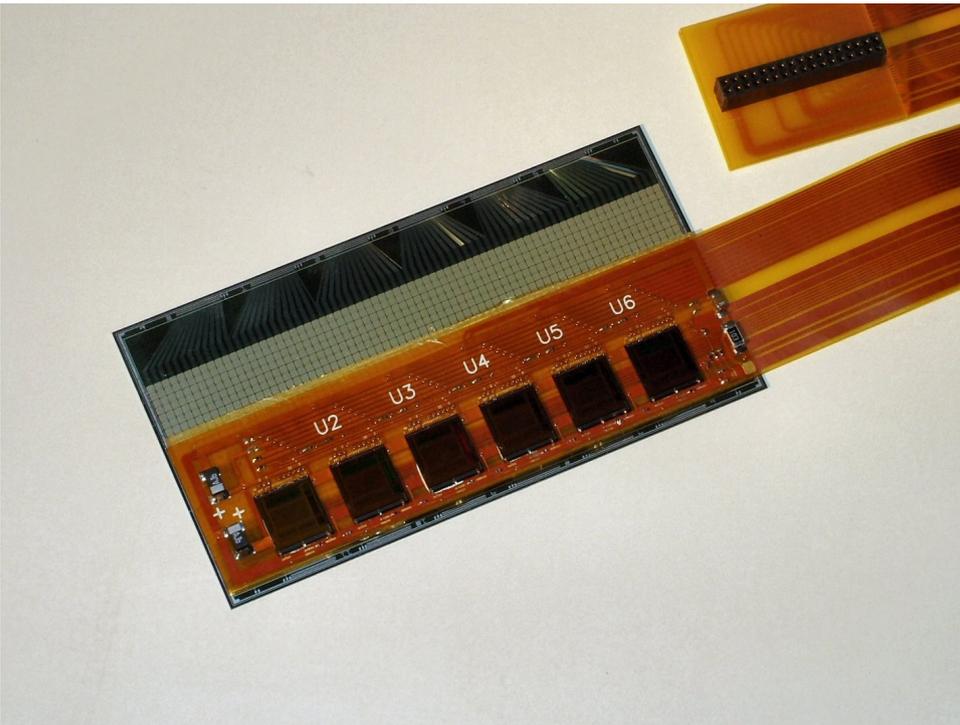


Bonding is reasonably consistent

Dale is setting up

For the pre-prototype.....

The pre-prototype



1536 channel PHOBOS sensor

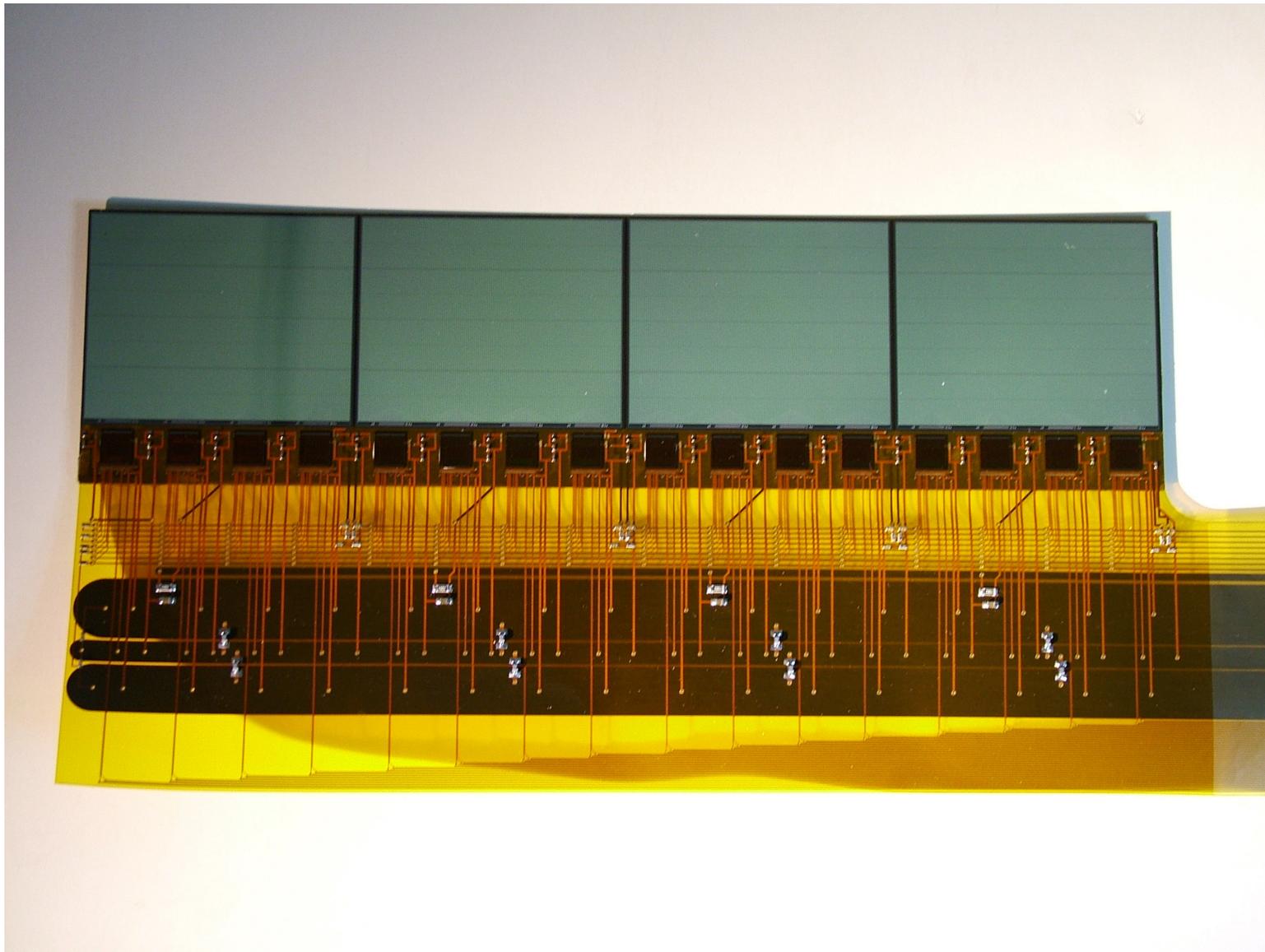
Kapton hybrid mounted directly on sensor

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

This will be a nice bonding test

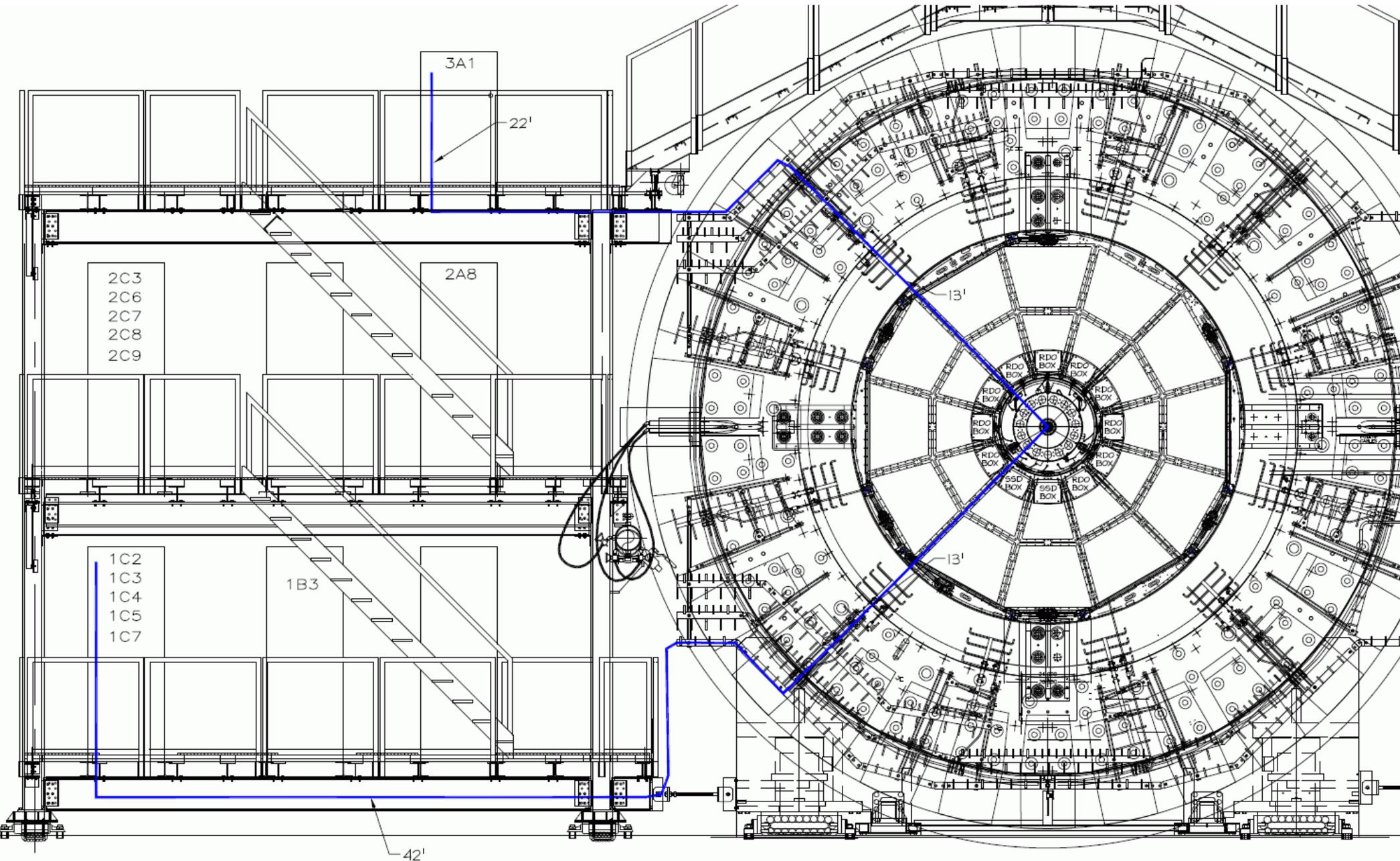
And a nice test module

The FY08 R&D hybrid



With 16 APV25-S1 chips and 4 PHOBOS IV sensors mounted

The need for IST (FGT) cable drivers?



IST (FGT) transition boxes



Old SVT RDO boxes

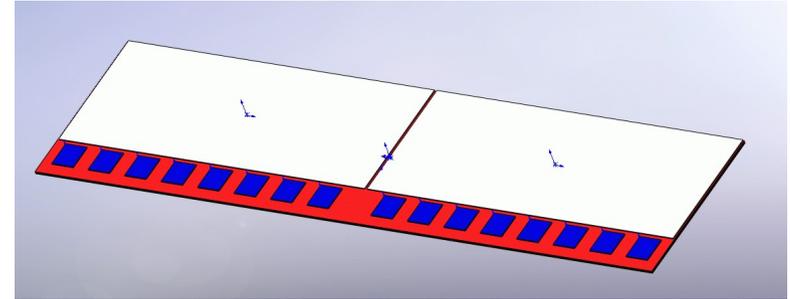
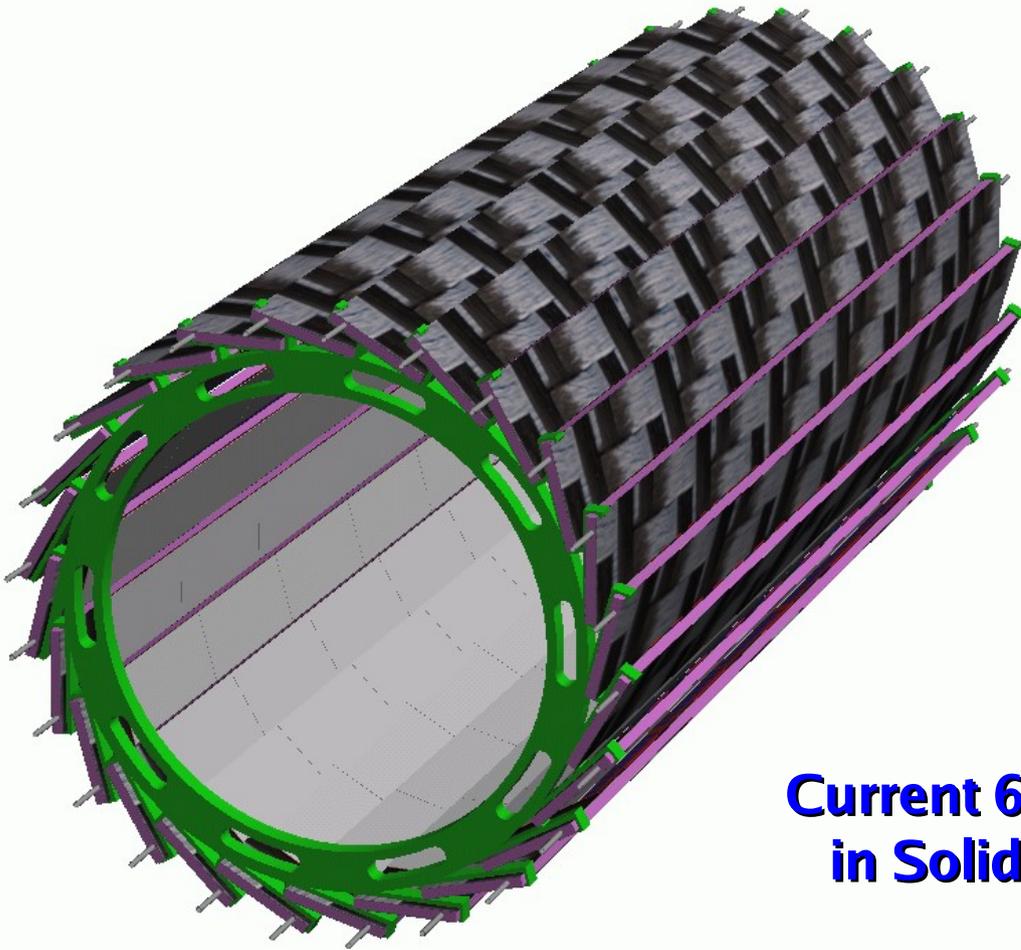
12 on East, 12 on West side

Comes with all mountings

And water cooling

Perfect for cable transitions

IST SolidWorks

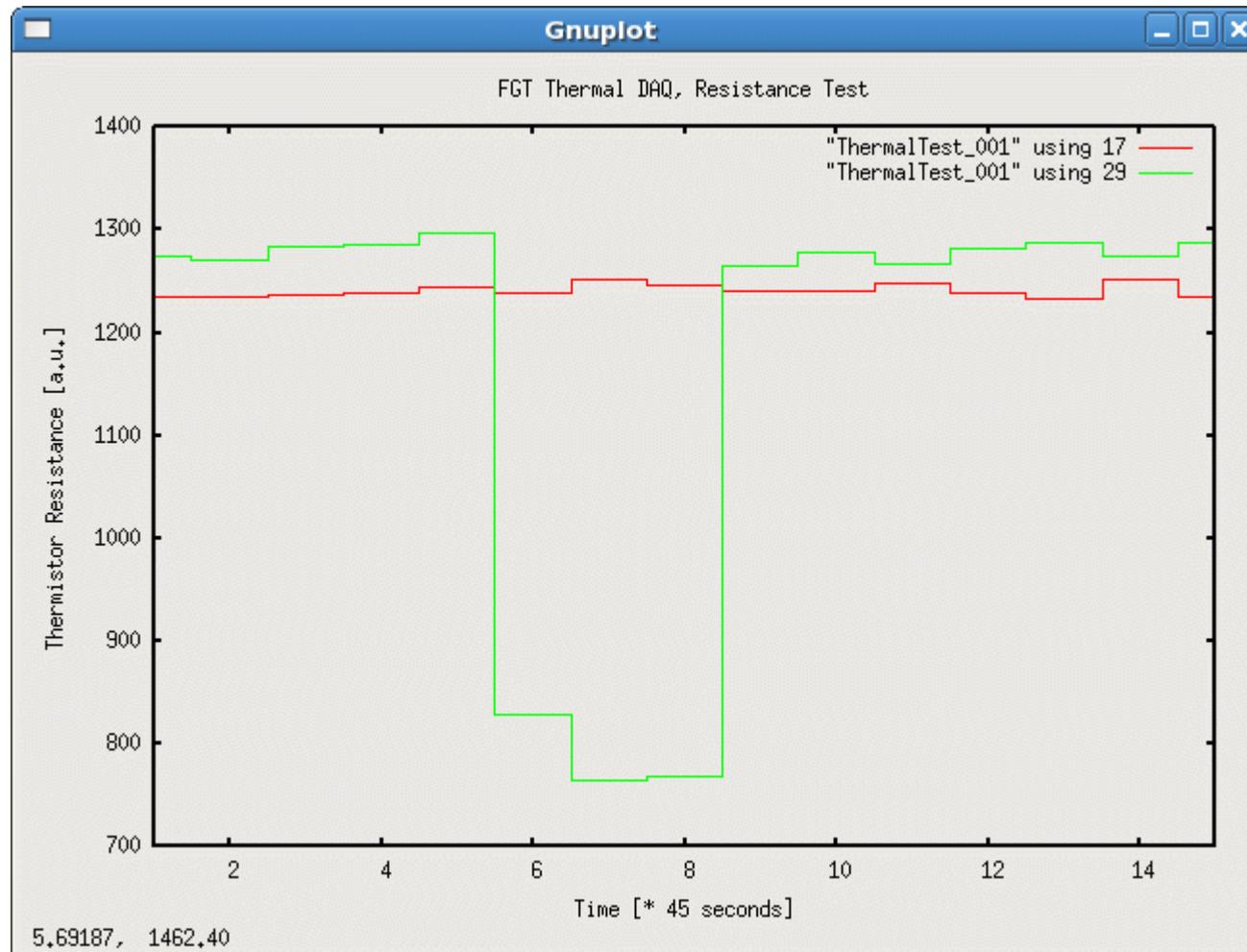


**Current 62cm long ladders implemented
in SolidWorks**

Studying the ladder support pieces

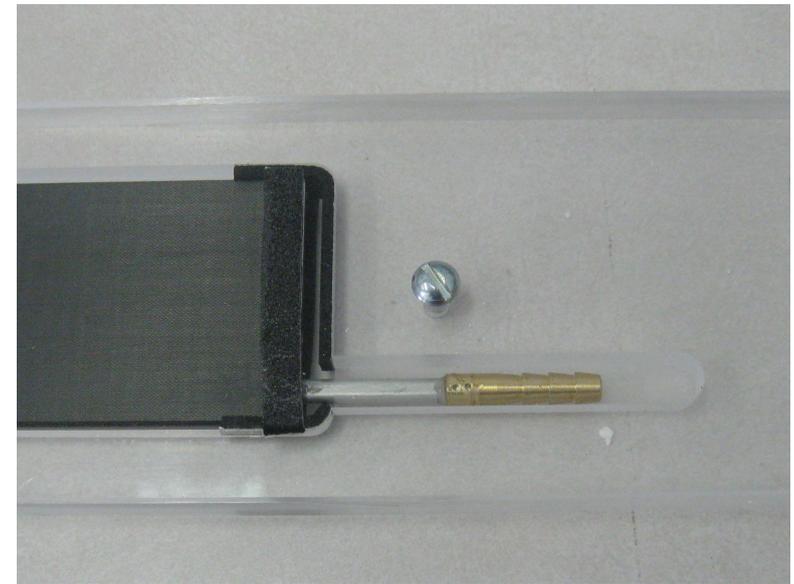
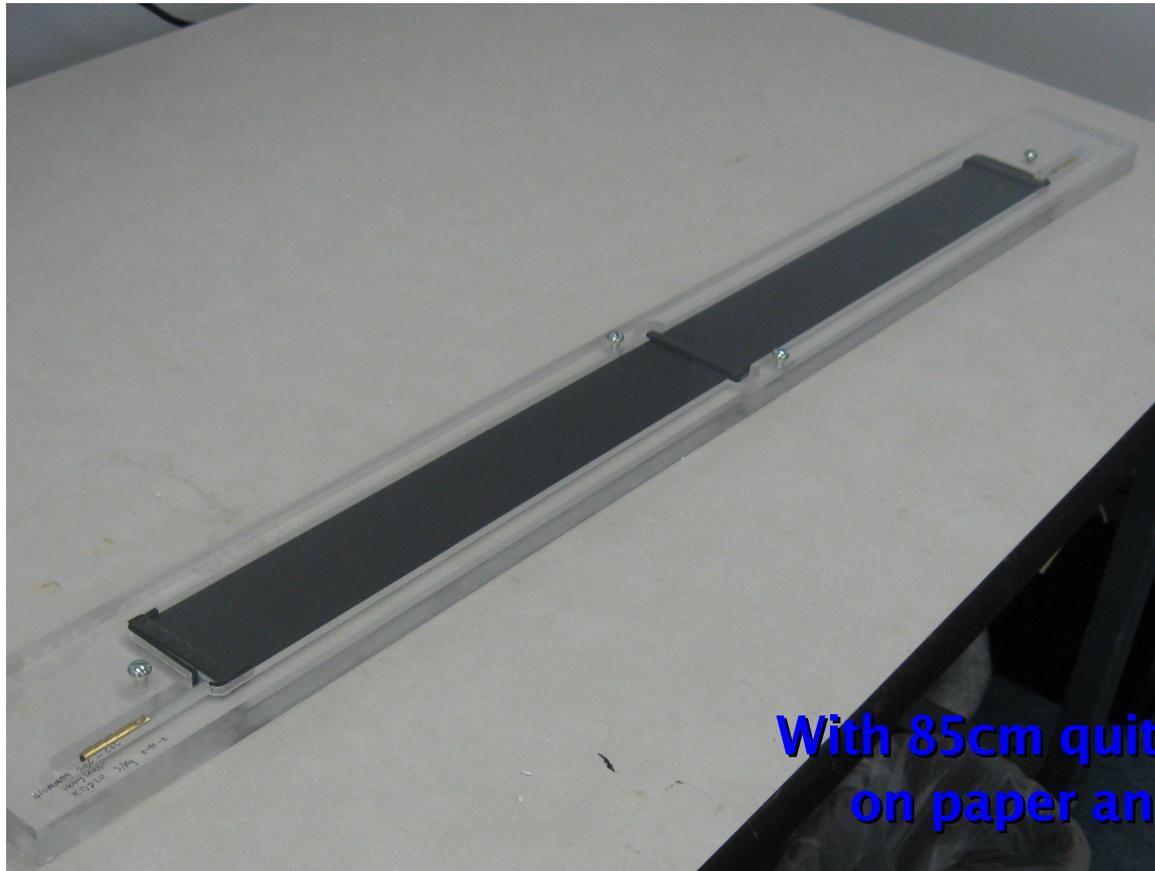
Jim and Gerrit sit together today and fix it

The FGT Thermal DAQ system



Software ready to go, some whistles and bells if necessary
Keithley and cables ready, need to be fully connected still
Thermistors ordered, should be connected to cables

The FY08/09 R&D ladders



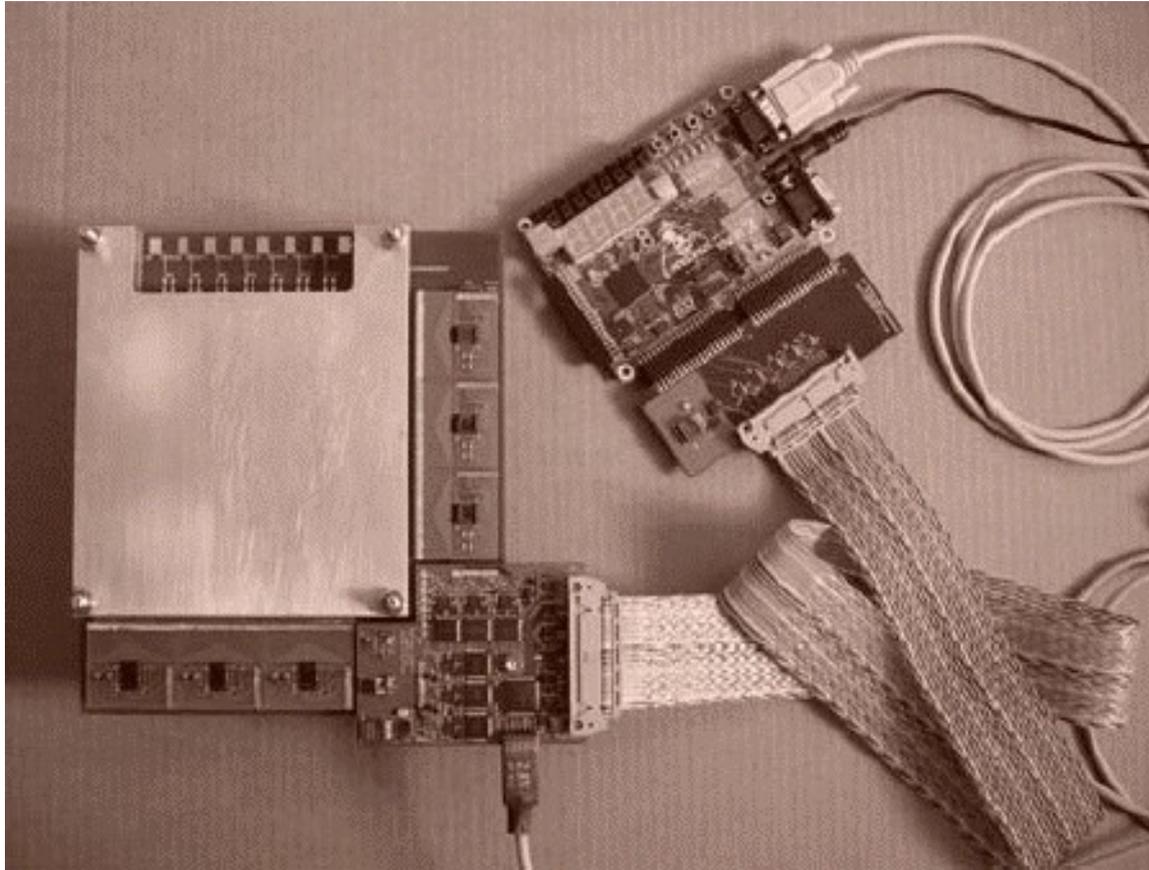
With 85cm quite a bit longer than the 61cm on paper and much longer than 42cm expected

Will provide nice mechanical test

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

2 finished ladders at Bates, test results at LBNL

The FY09 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 FY09 R&D readout systems

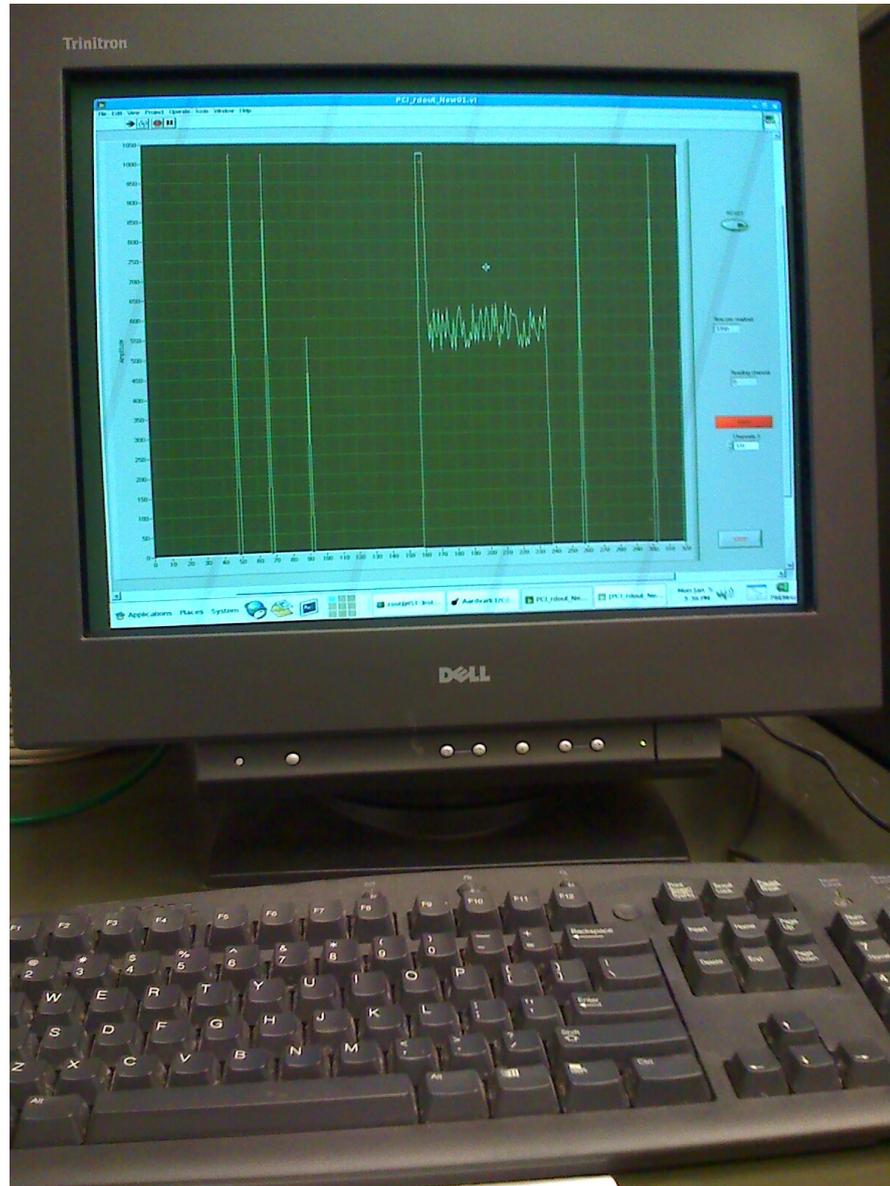


The FY09 R&D readout systems



The FY09 R&D readout systems

Linux LabView Readout



Linux Comedi Readout

