

# The SEI Team

### MIT

## Stanford

### HOLSU

Stephany Foley
Bob Lalierte
Myron Macinnis
Fabrice Matichard
Andy Stein
Predeep Sarin
Ken Mason
Rich Mittleman

Daniel Clark Tarmigan Casebolt Dan DeBra Brian Lantz

> And I'm sure hat I've missed

> > a few

Mike Zucker Joe Hanson Brian O'Reilly Jeff Kissel Shyang Wen

Joe Giaime

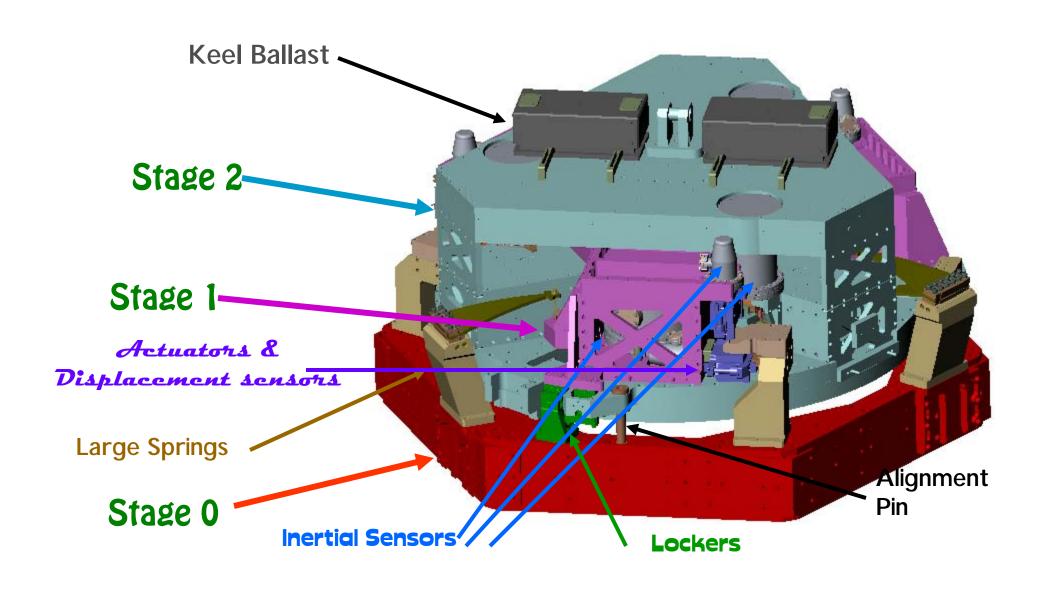
LHO

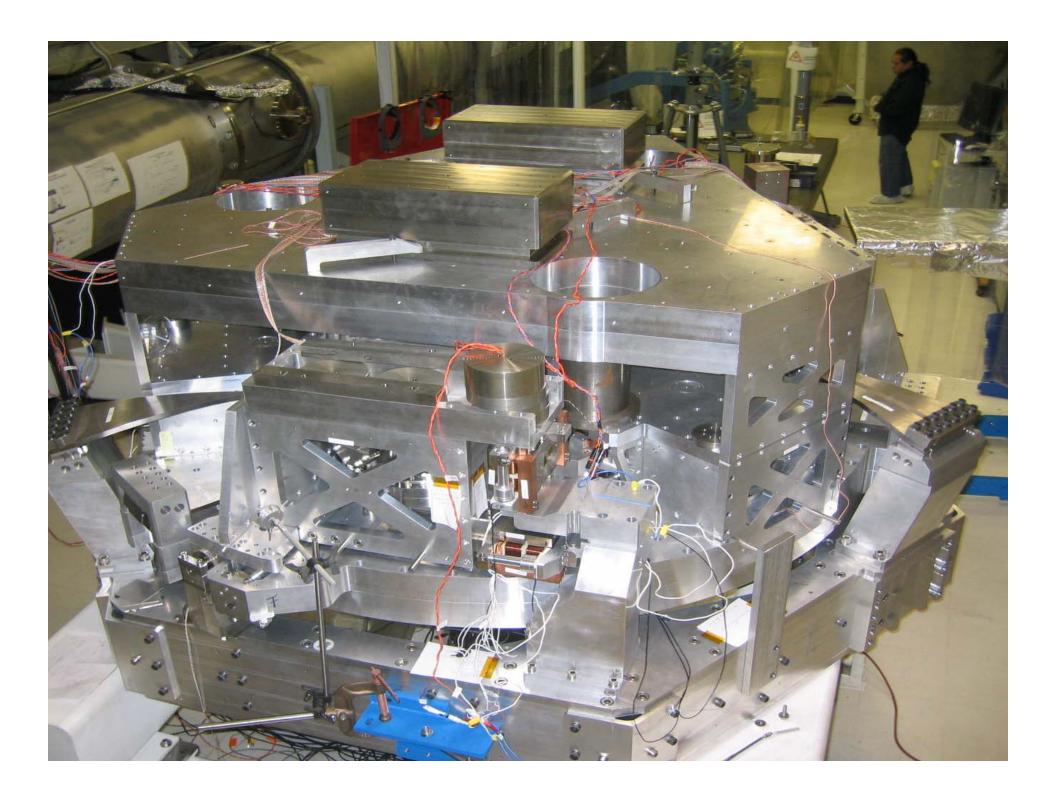
Ben Abbott
Dennis Coyne
Lee Cardenas
Jay Heefner
Riccardo DeSalvo

Caltech

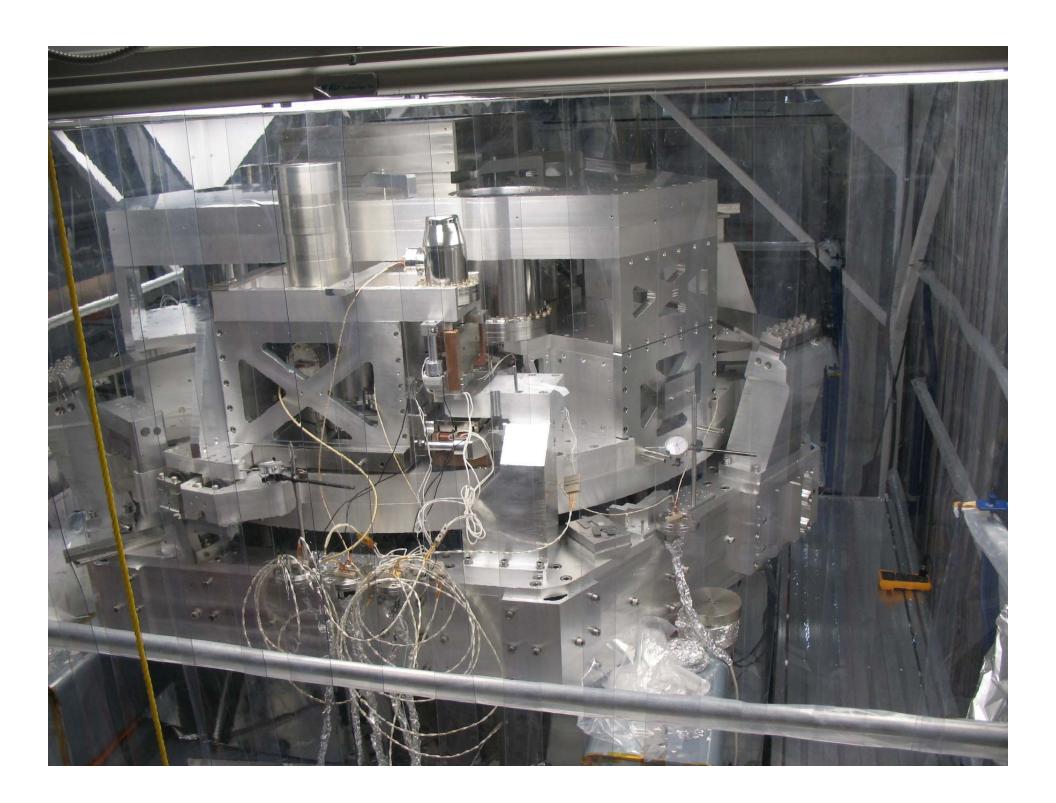
Corey Gray Hugh Radkins Mike Landry

## Three Stage ISI



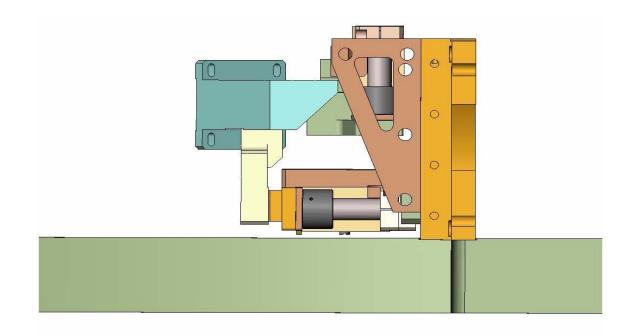


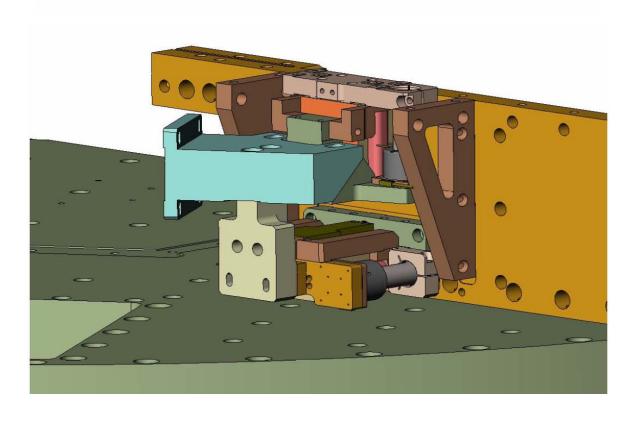




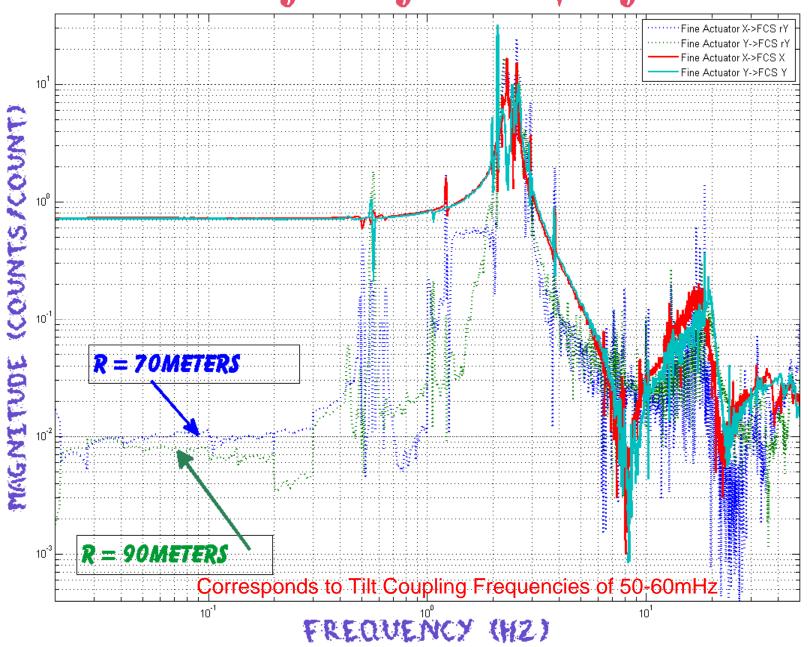
Stage 1-2
Actuator
Mounting
Redesign

(Moved down by 1.835")



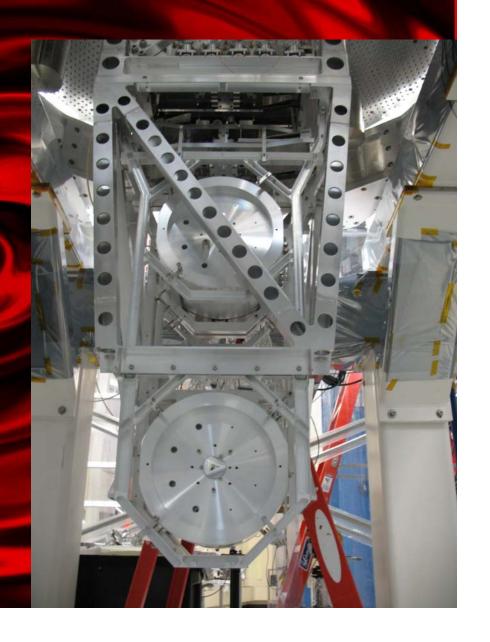


### stage 2 Angluar coupling

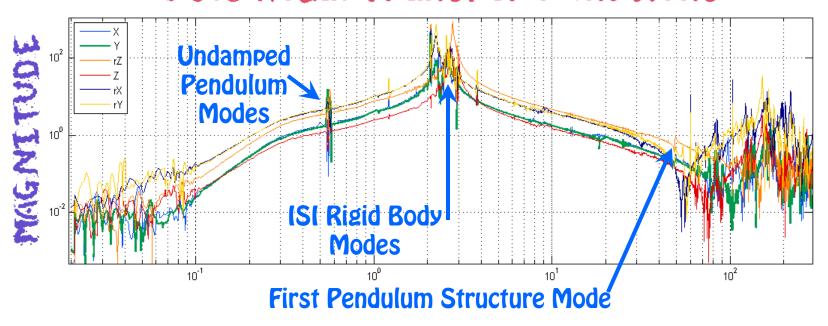


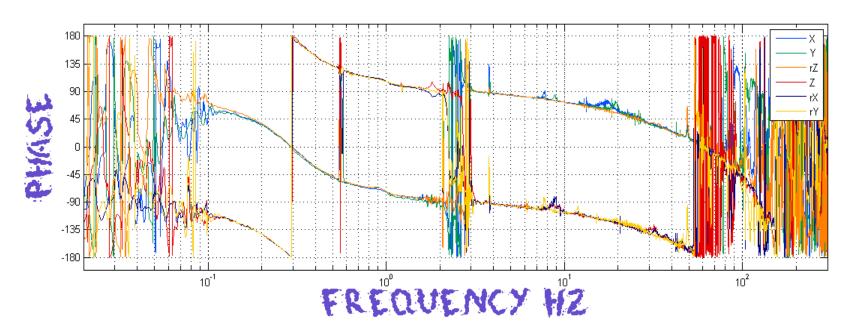
## Quad/TST Interactions

We took a complete system identification of stage 2 actuators to the stage 2 sensors and found that while the added resonances from the pendulum structure where lower then anticipated that they do not couple to the JSJ sensors particularly strongly

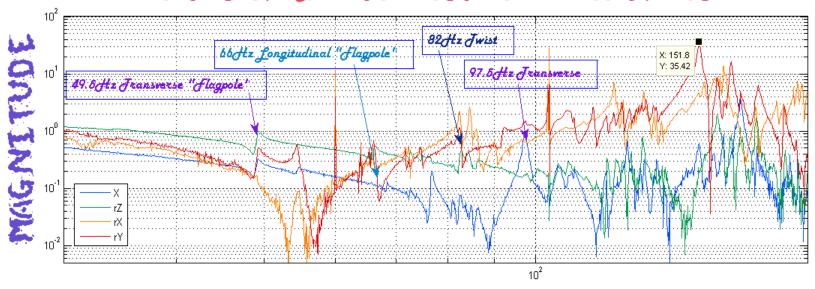


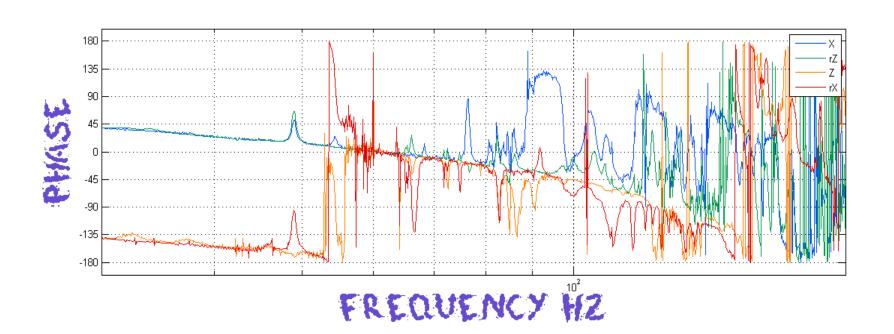
#### CS13 Modal Transper Functions

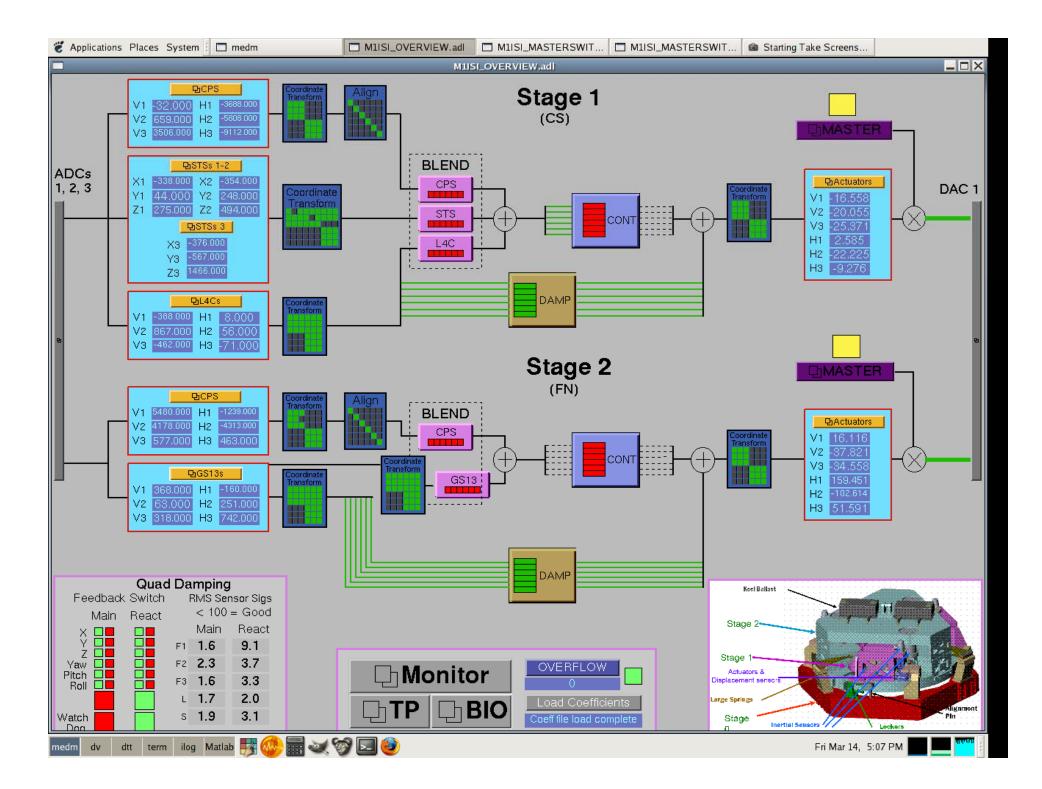




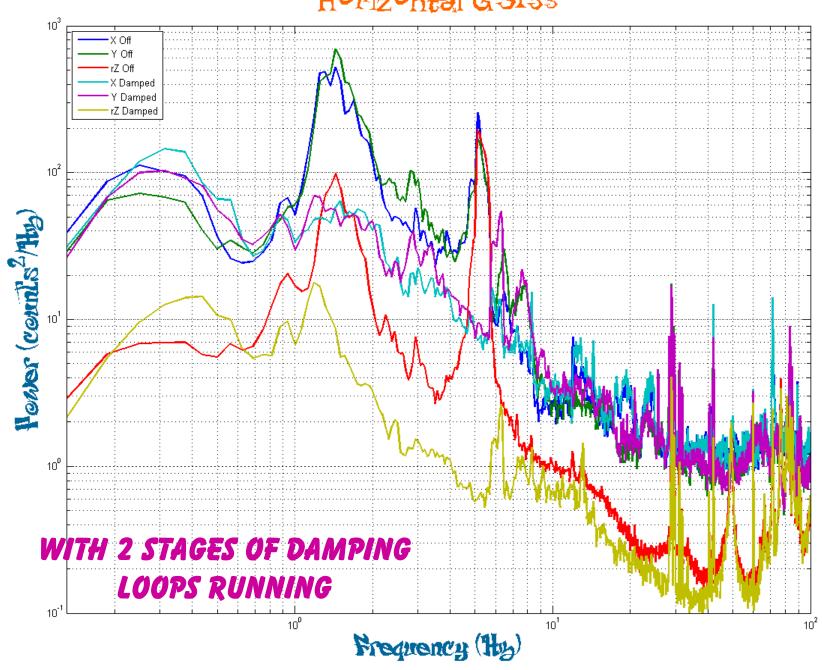
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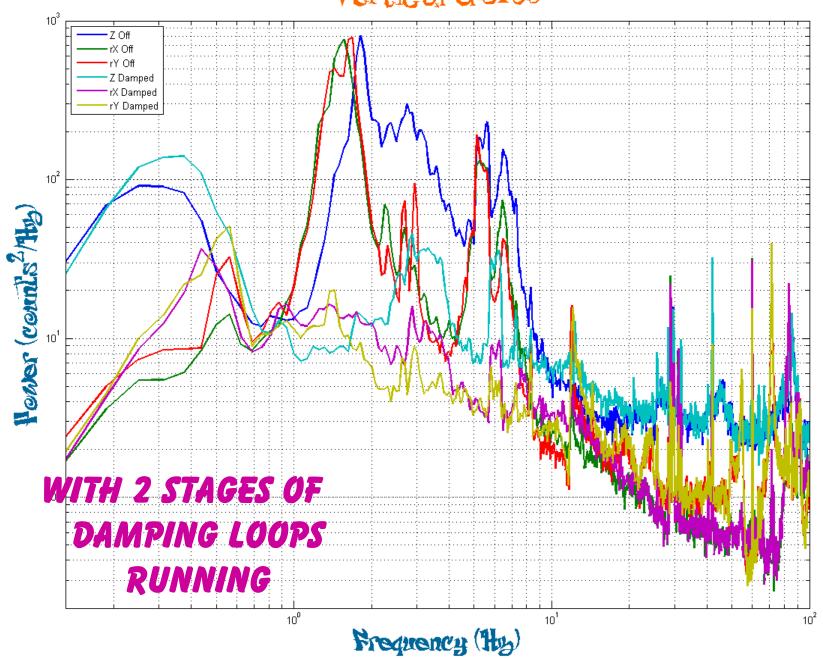




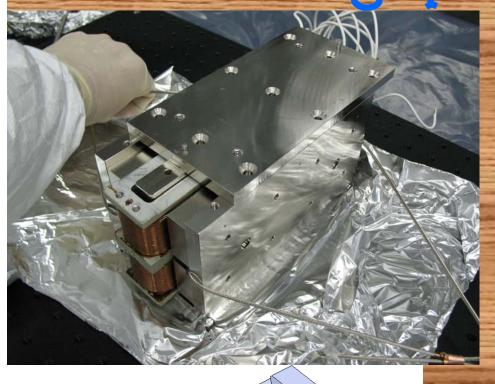
#### Horizontal GS13s

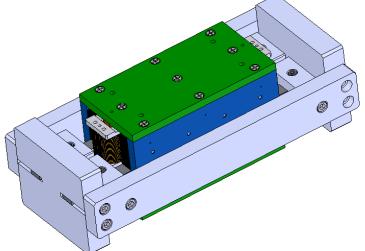


#### Vertical GS13s













- Redesigned both actuators
  Increased gaps
  Improved wire break offs
  - improved wire break offs
  - Adjusted strength
- Improved the spring loading tooling
- Still have a long list of design changes and modifications to work on

