My work in 2015 12-4

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A(blade) D(mass) E(hanger)



- Actuator

heater

- There was no peak.
- The actuator was not connected to the cable well.
- We changed the actuator.



- · There was no peak again.
- · We changed the actuator again.



- · 1300Hz~2200Hz、no peak
- · There was no peak for pendulum mode either.

Result(heat load test)

This is the result after temperature ow ··· A6.3K D6.9K E8.6K B5.5K calibration.



heat load test

- We assumed that there is only the sapphire fiber between the blade and the mass.
- We calculated the ideal temperature of the mass.



thermal resistance between the blade and the copper

- · 0.50W…24(K/W)
- · 0.245W…36(K/W)
- · 0.045W…93(K/W)

Future work

- We will move the beam spot to the center of the fiber.
- We will find the peak seeing the signal without the LabView program.