

Progress of Shintake monitor work

KEK site meeting

2009/7/1

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Progress Status

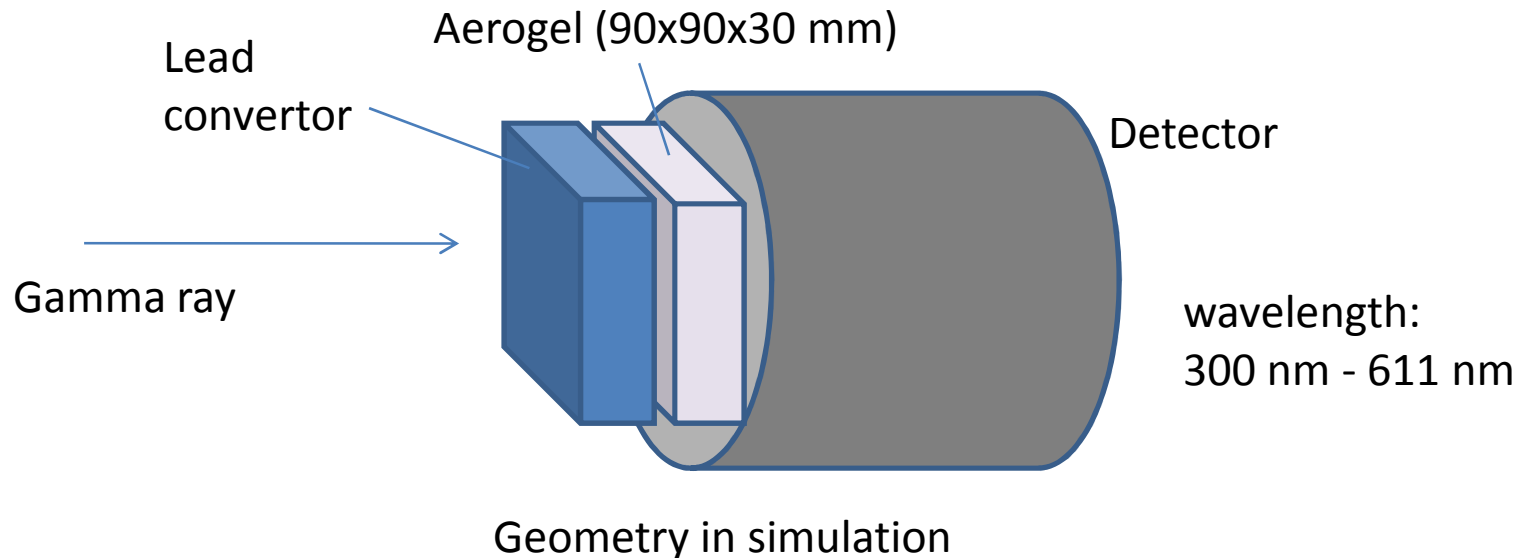
- Screen monitor & knife edge
 - waiting for the design from Seiwa Co. Ltd.
- Collimator scan stage
 - Stage was arrived
 - Remaining work
 - make lead block collimator



Collimator scan stage

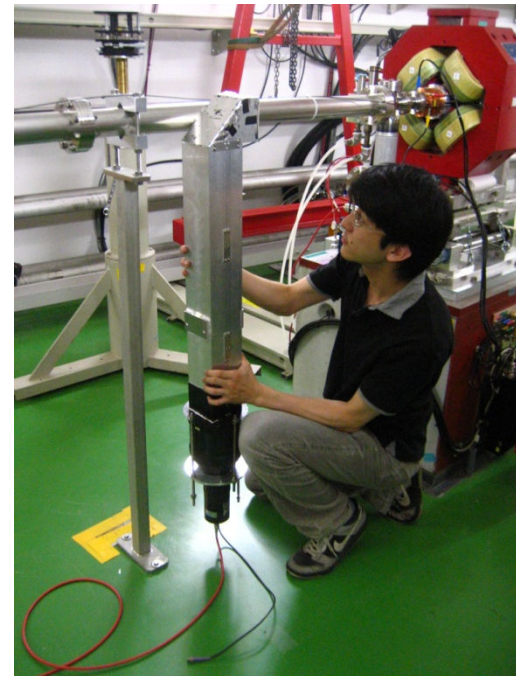
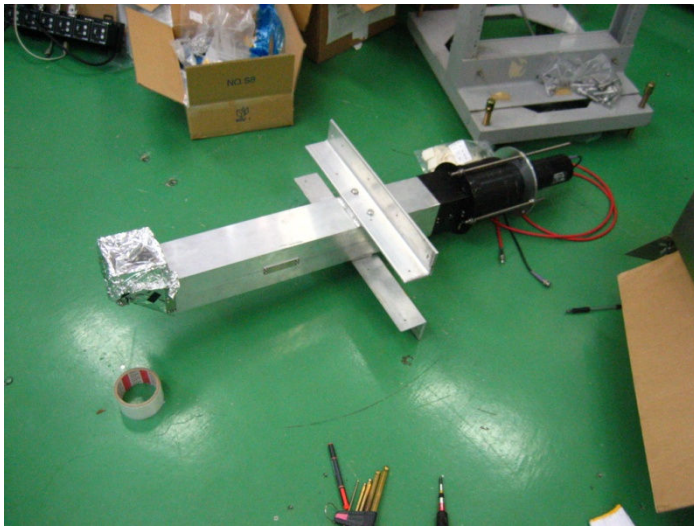
Cherenkov Detector (1)

- Simulation of signal resolution using GEANT4 was finished (by Yamaguchi).
 - Aerogel types (SP-15, SP-30, SP-50) -> not so different
 - Lead convertor thickness -> the best resolution obtained with 12 mm thickness convertor



Cherenkov Detector (2)

- Fabrication was started
 - Materials are almost prepared. Fabrication is relatively easy.



Laser Optics

- Phase stability measurement during Monalisa installation is expected.
- However, due to lack of site work it is difficult to prepare 174 deg mode measurement
 - Low angle modes measurement is possible.

Laser Trouble

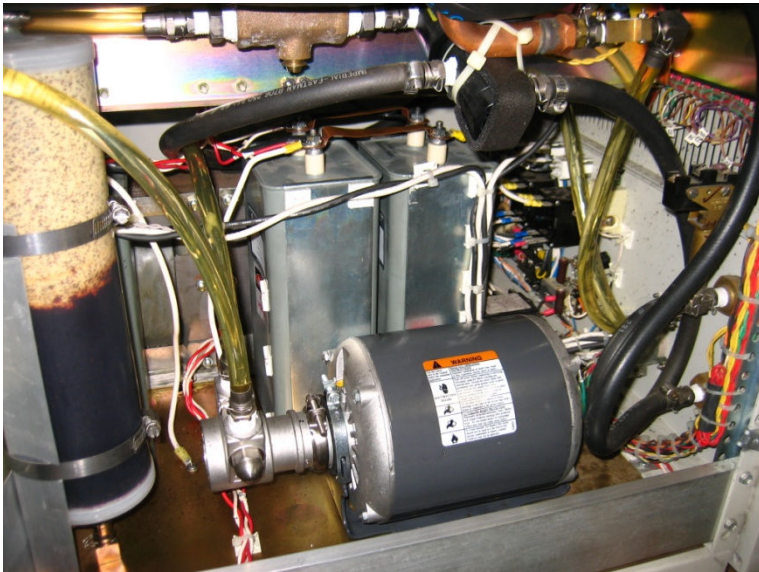
- During the laser operation spark was observed from laser power supply.
 - stopped the operation immediately
 - It was due to the leakage of oil from oil capacitors.
 - They are the replaced ones last year.

oil was leaked from this capacitor



Replacement of Capacitors

- Replaced the capacitor leaking oil by stored capacitors.
- After the replacement, the laser runs normally.



After the capacitor replacement



oil leaking capacitor

