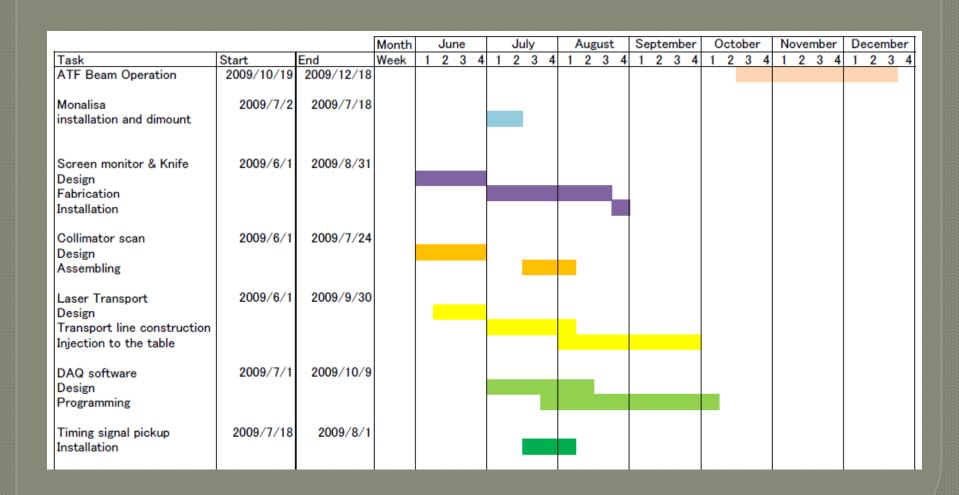
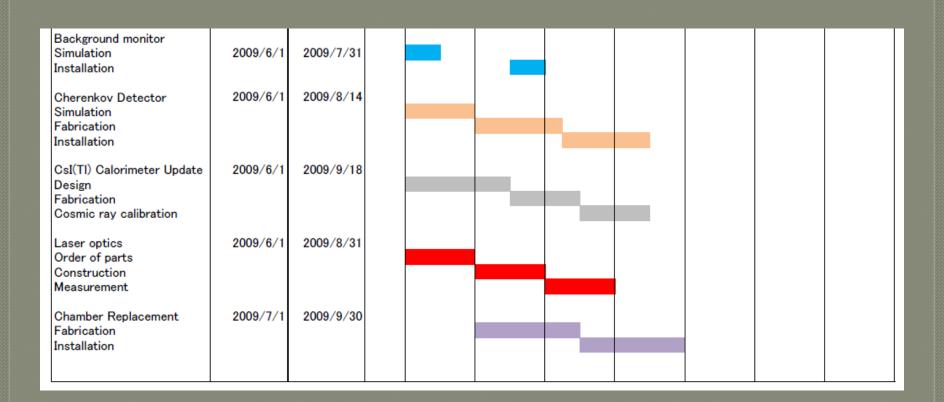
Progress of IP-BSM Work

2009/6/24 KEK site meeting T. Yamanaka

Schedule (1)



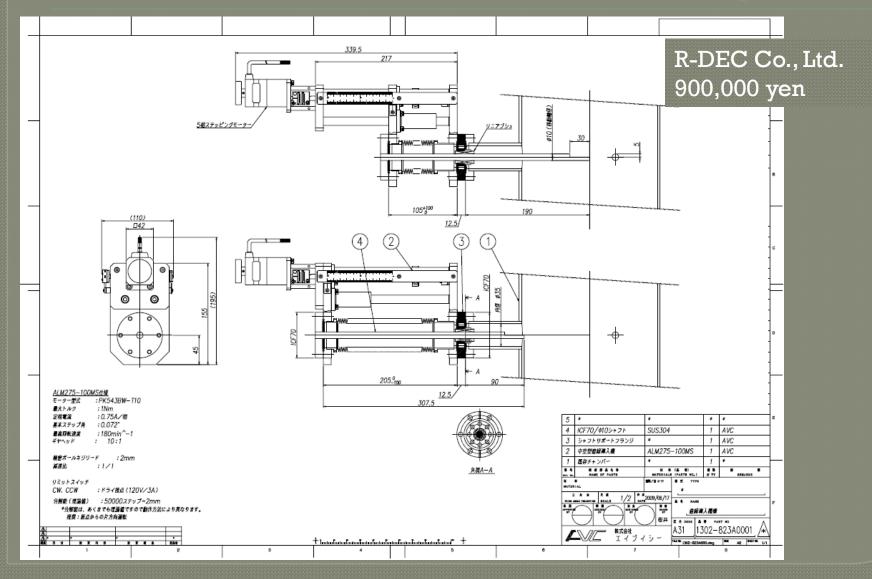
Schedule (2)



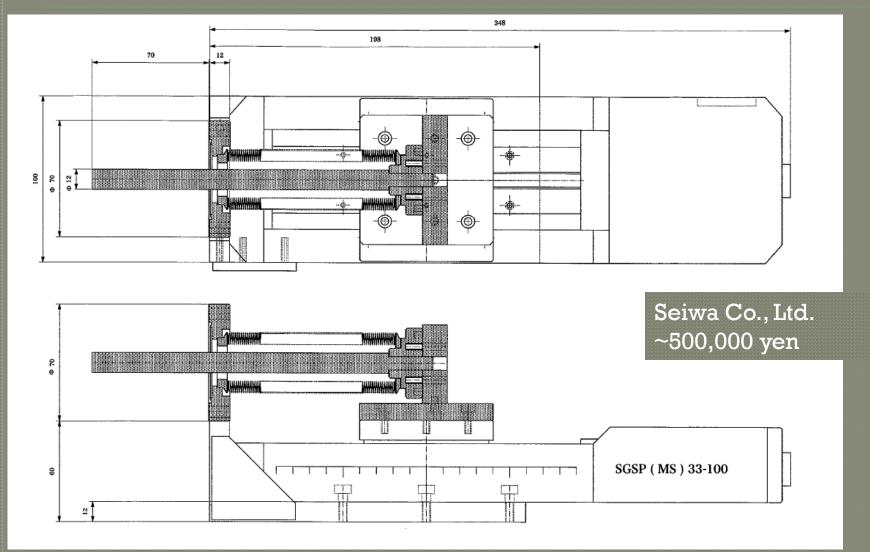
Screen Monitor & Knife Edge

- Design is going on
 - Linear motion stage
 - need to decide which design will be used
 - R-DEC and Seiwa
 - Screen and knife edge holder
 - asking Seiwa

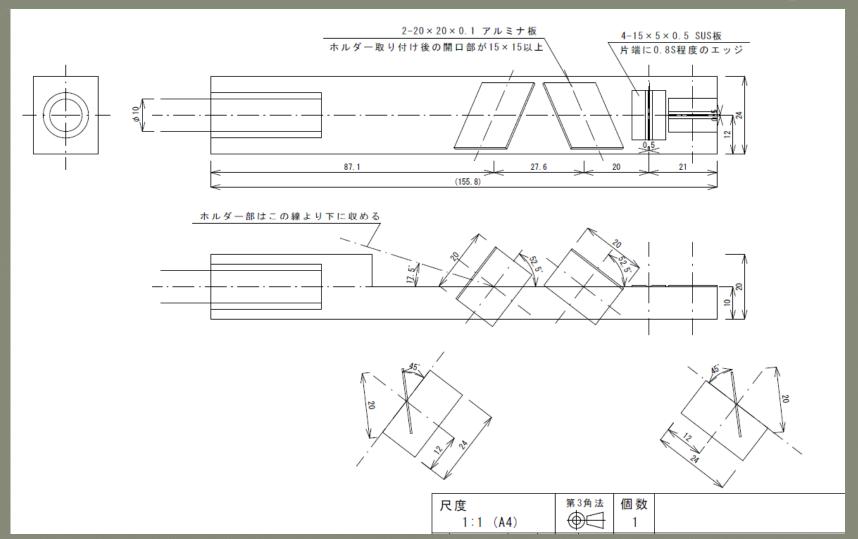
Linear Motion Stage (1)



Linear Motion Stage (2)



Holder Design



Collimator Scan

Almost the same design as DR LW collimator scan system



- Sigma Koki X and Z axis Linear Stage
- 100 mm travel in horizontal
- 50 mm travel in vertical
- 7 kgf maximum pay load



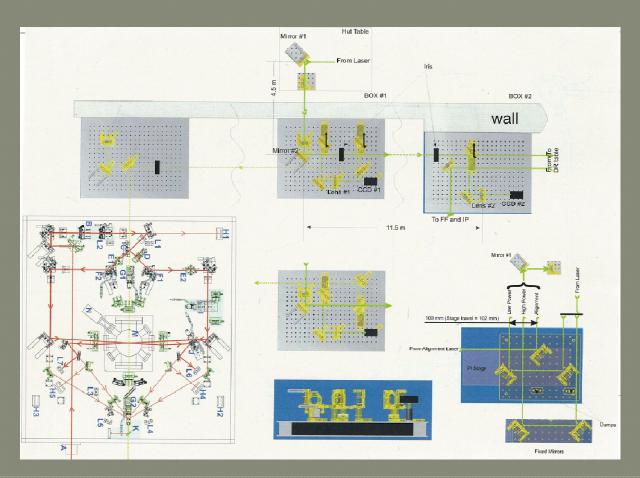
move $50\times50\times200$ mm lead block with $\phi10$ or $\phi15$ hole in front or rear of $\phi20$ fixed collimator

Additional Collimator

- Where to put additional collimator
 - Is it O.K. just after the bending magnet flunge?
 - Detector for wire scanner
 - How large shield is accepted?

Laser Transport

- Regarding the transport, there are no problem with Aryshev's design
- Put forward with this design



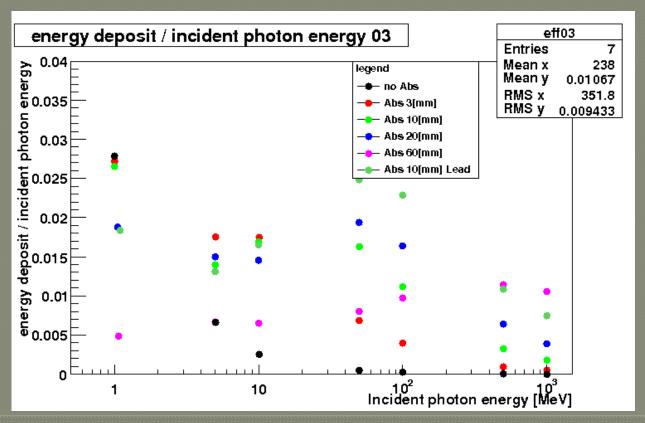
Laser Injection to the Table

Background Monitor

- The present background monitor (plastic scintillation detector) didn't work well.
- It seemed to be because it was only sensitive in lower energy gamma ray.
- By adding convertor plate in front of the detector, it can be sensitive to higher energy gamma ray

Background Monitor

- Energy deposit efficiency in the plastic scintillator when changing the convertor thickness (by Yamaguchi)
 - around 50 mm thickness steel, efficiency becomes almost flat



Cherenkov Detector

- EXT LW group has additional Cherenkov detector kits.
- It may be easy to prepare one Cherenkov detector



Large aperture PMTs



Aluminum tube



Aerogel

Cherekov Detector

After some simulations of signal resolution (Yamaguchi is now doing), make one detector.

Other Tasks

- DAQ Software
 - busy now, delay till later
- Timing pickup electrode