

LAr R&D Progress Updates

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Lab Safety and Space Management

▶ **EEL inspector training**

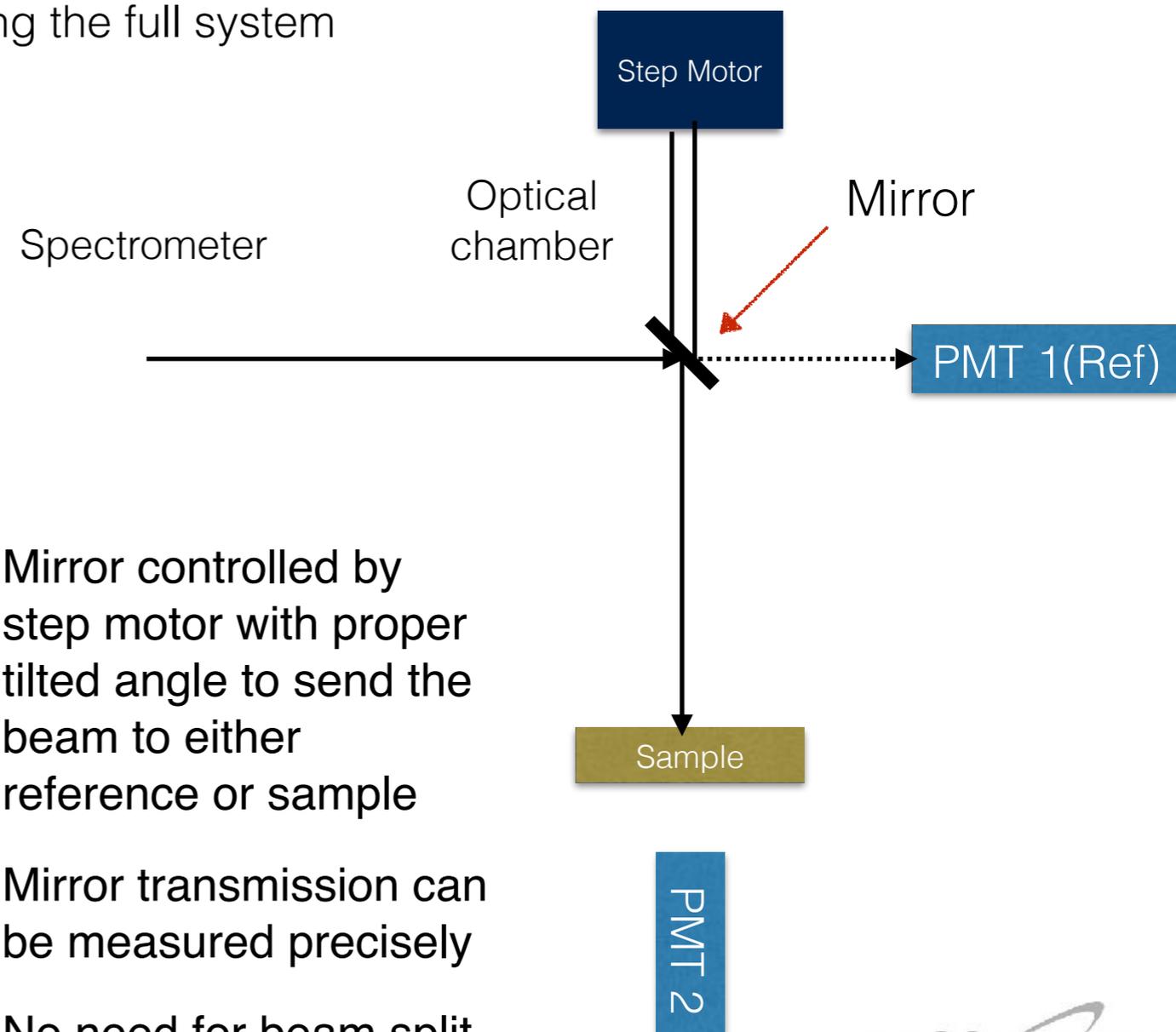
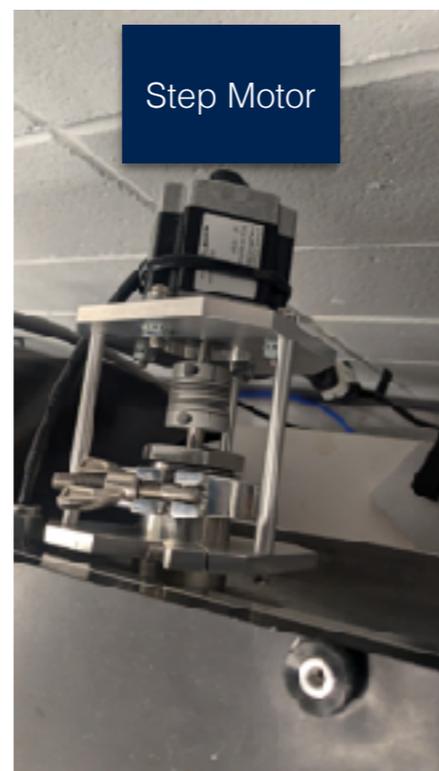
- Finished the in house EEL inspector training last Friday
- Next is the Job Performance Measurement (JPM), including inspection on 3 tasks with a current inspector
 - Inspection on manufacturer electrical device with no UL certificate: Use the thermal chamber we sent out for repair
 - Inspection on house made electrical device: Need to find an object
 - Inspection on a hard wired device: Lab electrical safety is working on finding a suitable device
- Once the JPM is complete, last required training is the information management by putting the inspection system in the lab system

▶ **6000-gallon LN2 refill**

- Currently running low with 10% level left
- A Webreq for refilling 4750 gallons has been put in
- Delivery expected late this week or early next week
- Going to coordinate with Achim about the delivery

Spectrometer refurbishment

- Had a discussion with Bob Azmoun, Craig Woody and Bill Morse about the project
 - A new scheme came up by using the another chamber, a revised test chamber needed
 - Using a step motor for sending the beam from spectrometer to the reference and sample
 - Similar setup has been made in Bob's lab
 - Using the same chamber for all measurements, Vac. GAr and LAr with vertical arrangement
 - I'm making the measurements and modeling the full system
 - Bill disassembled the current setup



- Mirror controlled by step motor with proper tilted angle to send the beam to either reference or sample
- Mirror transmission can be measured precisely
- No need for beam split

PO status for the future test

- Hamamatsu MgF PMTs
 - Just received 2x MgF PMTs today
 - Put the box in Milind's office
- Spectrometer parts
 - Most of parts delivered with only a few left
 - All handed over to Bob
- Thermal chamber repair
 - Vendor picked up and conducted a diagnosis
 - Problems found and PO is process for the repair



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