

# LAr R&D Progress Updates

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# Lab Safety and Space Management

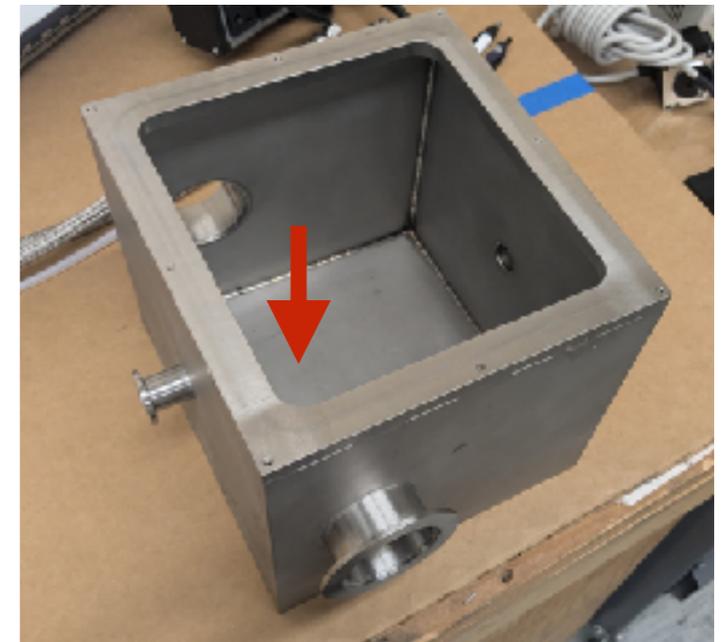
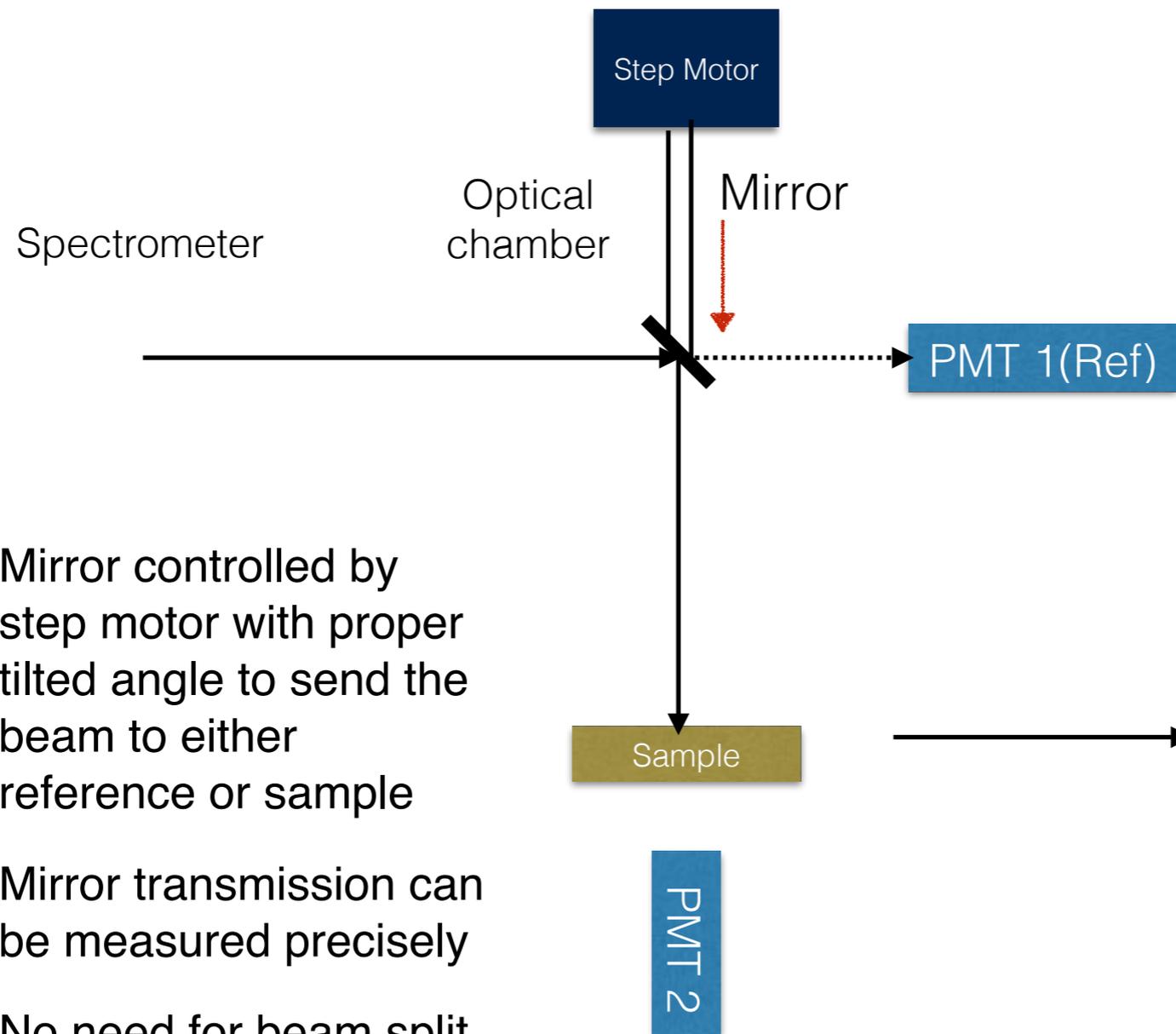
## ▶ EEI inspector training

- Job Performance Measure (JPM) in progress, including inspection on 3 tasks with a current inspector
  - ✓ *Inspection on manufacturer electrical device with no UL certificate: Done with a vacuum pump used on ATLAS robotic testing station (Passed last week)*
  - ✓ *Inspection on house made electrical device: Conducted inspection on two devices in ATLAS clean room: modified water pump and vacuum pump (Passed)*
  - Inspection on a hard wired device: Lab electrical safety is working on finding a suitable device
- Just one more task to finish to be an approved EEI inspector



# Spectrometer refurbishment

- Mechanical modeling of the full setup
  - Had a discussion with Bob about the optical setup on modification to the optical box
  - Adding a NW50 port at the bottom of current box and also a gas port

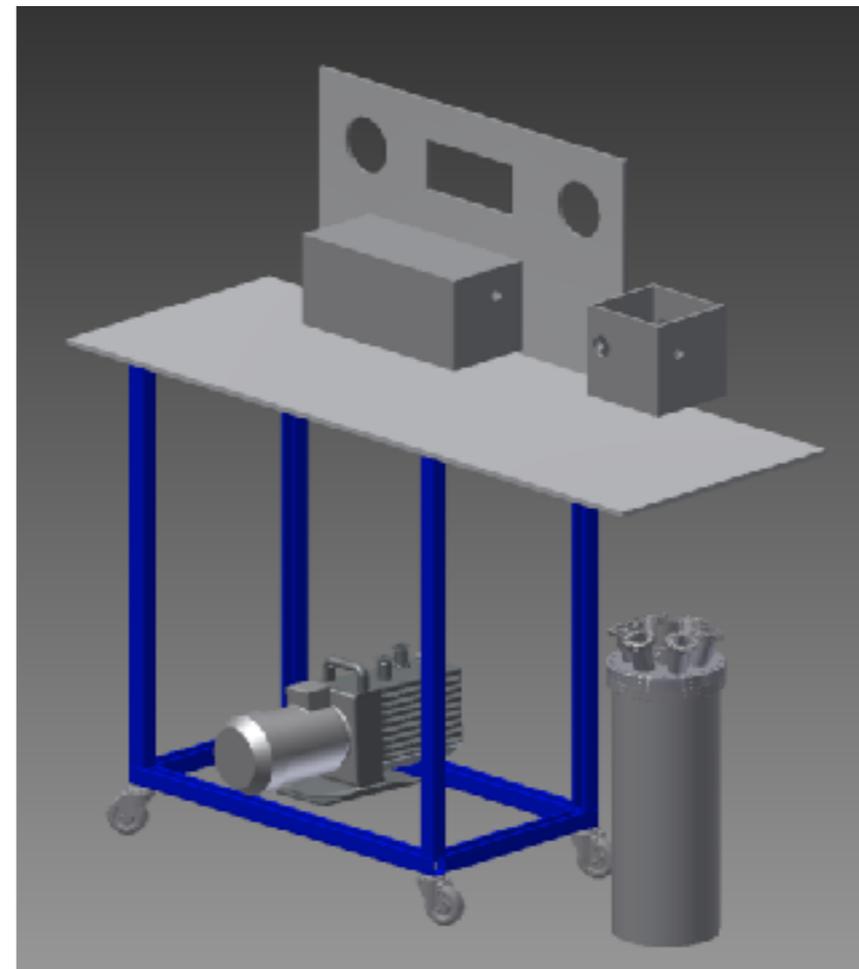


- Mirror controlled by step motor with proper tilted angle to send the beam to either reference or sample
- Mirror transmission can be measured precisely
- No need for beam split

- Mirror controlled by step motor with proper tilted angle to send the beam to either reference or sample
- Change from rotational mirror move to transitional

# Spectrometer refurbishment

- Finishing the full model of the spectrometer setup
- All dimensions measured on the setup
- Will have a preliminary design of the spectrometer system for discussion next week on the Technical Meeting



# Miscellaneous Updates

- Our collaboration Raytum Photonics Inc. on the SBIR for dichroic filter development visited last Friday
- The goal of the project has been achieved with the filter satisfies our initial technical requirements
- The plan for concluding the project is discussed
- We are going to send dichroic filters to Brazil for PTP coating
- The thermal chamber repair is done, the equipment returned today
- Cryogenic PMTs received from Hamamatsu yesterday

