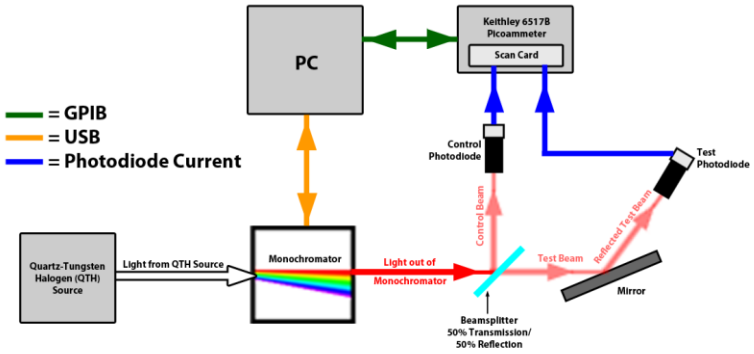
DSG-RICH R&D Meeting Minutes

Date: March 19, 2021
Time: 11:00AM – 12:00PM

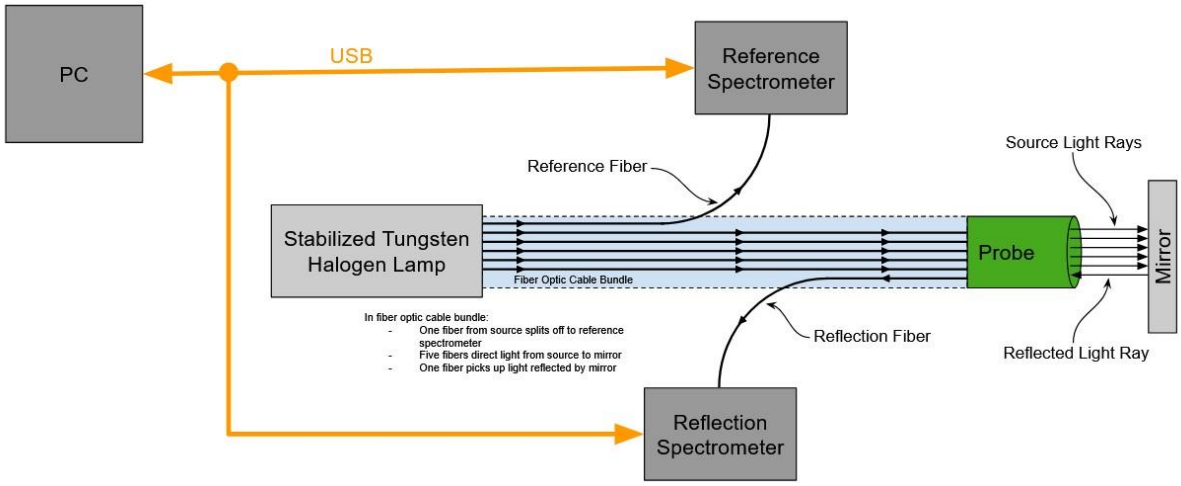
Attendees: Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran

1. **Reviewed current reflectivity test station**
   Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran
   - Current test station required complex alignment procedure that introduces error to measurements.



Current mirror reflectivity test station

2. **Reviewed proposed equipment for reflectivity test station**
   Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran
   - Proposed upgrade would use two compact USB spectrometers to measure amount of light reflected by a mirror
   - Light will be routed from source to mirror and spectrometers using a fiber optic cable bundle

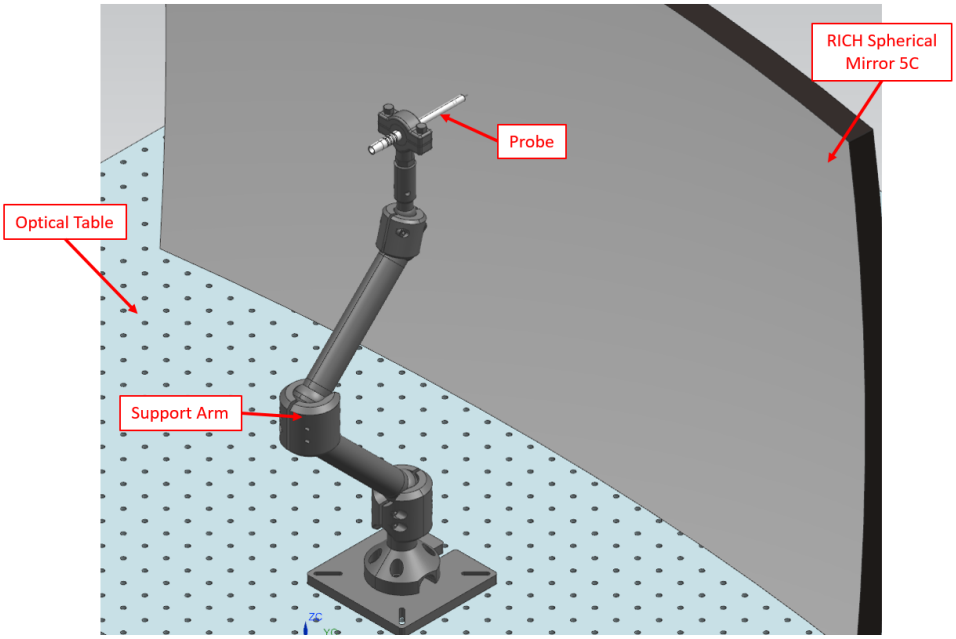


System diagram of proposed test station upgrade

3. Discussed configuration for manual alignment setup of proposed test station

Peter Bonneau, Aaron Brown, Pablo Campero, Brian Eng, George Jacobs, Tyler Lemon, Marc McMullen, and Amrit Yegneswaran

- To protect mirror if manual alignment is used, mirror will be held vertically in existing mirror test stand.
  - Vertical configuration lessens chance that probe will fall on mirror if support arm fails



NX model of proposed manual alignment setup. RICH spherical mirror 5C is largest spherical mirror.