

Q1 Report - Robotic Collaboration for Particulate Free SRF Assembly

• Progress

- started testing on 2-cavity setup, installing adapter in-between cavities
- improving on positioning accuracy
- improving understanding of vision system
 - optimization of lightning conditions to improve image quality
 - investigate how to connect multiple images to scan larger areas

• Issues

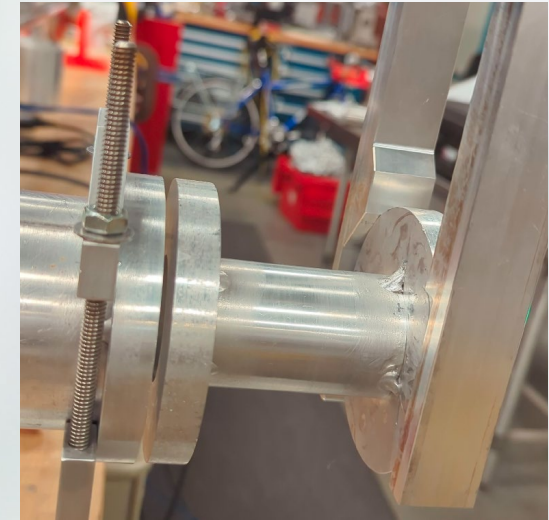
- low in personnel resources due to CEBAF maintenance and commissioning work
- there is some sag when robot grips the adapter, which affects final accuracy

• Next Steps

- optimize initial grip to avoid sag

• Other

- applied for DOE funding in collaboration with Fermilab and CNU



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WBS 1.04 Accelerator LDRD Projects
FY25 Period 03 - December 2024

Robotic Collaboration for Particle Free SRF Assembly-2 Roger Ruber - LD2504 - WBS 1.04.LD.012.002 FY25 Budget: \$195.0 Loaded K\$

