

Proposed SVT activities at JLab

SVT Working Meeting

8 Oct 2026

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U.S. DEPARTMENT
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Proposed SVT activities and previous experiences

- JLab is interested contributing the efforts towards **SVT Disk Module Assembly and QC Testing**
 - Infrastructure and resources availability, previous experience
- JLab was previously involved in performing QC testing for the Silicon Vertex Trackers installed in Hall B experiment at JLab
 - 3 Staff members with CLAS12 SVT QC testing experience
 - Availability of the testing infrastructure – Cleanroom/testing area, electronics, chiller, gas system, microscope
 - Looking into resources to get the wire bonding machine

Previous experience

- I personally bring hands-on experience from the ATLAS Phase II ITk upgrade
- Commission the Argonne Pixel Tracking Telescope at Fermilab
 - Extensive test beam experience
- Inner system module assembly and testing
 - Prepared and qualified the Argonne assembly and testing site during the prototyping phase and translated the lessons learned towards the pre-production phase
 - Developed the assembly and QC procedures and validated the assembly tooling. Feedback implemented towards final assembly tooling
 - Reviewed the RD53A (prototype) module assembly results for all ITk world-wide sites
- Inner system Type-0 on-detector services
 - 21 different Type-0 services for the inner system – power flex PCBs, data flex PCBs
 - Led the testing team and prepared the lab for pre-production and production testing
 - Visual inspection, connectivity/HV tests (Cirris tester), signal integrity (VNA)
 - Closely worked with designers