

Quality Control for ATLAS Phase 2 Inner Tracker Upgrade at The University of Oklahoma

Friday, 15 December 2023 09:30 (10 minutes)

The University of Oklahoma (OU) is contributing to the quality control (QC) of the ATLAS experiment Phase 2 upgrade of the Inner Tracker (ITk) pixel detector. OU has been certified to perform a variety of QC tests, including thickness measurement, visual inspection, and low-voltage/high-voltage tests of bare and populated PCBs. OU is also contributing to the development of a technique to do visual inspection of PCBs using a convolutional neural network (CNN) machine learning algorithm. Aside from the dedicated tests, OU will be a backup site for the electrical testing, parylene coating, and thermal cycling of assembled modules.

[in-person]

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Session Classification: Lightning Round Talks (3)