



Department of Physics and Astronomy
SPRING 2023 Colloquium Series

“Electrical Characterization of Pixel Modules for the ATLAS Group at Cern”

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Sac State Physics Major Senior Project Research

The ATLAS Project is one of the four detectors positioned along the Large Hadron Collider (LHC). ATLAS is a general detector, capable of detecting particles with charge and non-negligent mass. In 2029 the High-Luminosity LHC (HL-LHC) will be implemented to increase proton-proton collision density and energy. The Inner Tracker Detector is the innermost detector in ATLAS. It will be upgraded to handle the greatest concentration of particles and radiation as it covers the smallest surface area. Currently, the individual modules are being prototyped and tested for accuracy and reliability. In this project I tested the modules during their “loading” phase. In total 26 modules were passed to the next phase.

***Tuesday, May 9, 2023**

4:00 - 5:20PM

MND1015

Open & Free to all students, faculty and public