

Abstract Submitted
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Validation of Production SiPMs for the sPHENIX Experiment¹

NATHAN GRAU, Augustana University, SPHENIX COLLABORATION — The sPHENIX detector is designed to measure calorimetric jets and heavy flavors to study the microscopic properties of the quark-gluon plasma produced in ultrarelativistic heavy ion collisions at RHIC. The electromagnetic and hadronic calorimeters will cover full azimuth and $-\eta \leq 1$. The calorimeters are readout through common electronics and use silicon photomultipliers (SiPMs) as the optical sensor. The full detector requires 106,000 SiPMs, with the Hamamatsu S12572-015P having been chosen as the device to instrument the full detector. The production of this large order is ongoing and monthly shipments of 8,500 SiPMs began arriving at the University of Michigan in March of 2019. In this talk we outline the test stand developed at the University of Debrecen, the strategy to validate the SiPMs received, and the results of that evaluation.

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