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## Electrical performances of pre-productions staves for the ATLAS ITk Strip Detector Upgrade

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The ATLAS experiment is currently preparing for an upgrade of the inner tracking detector for High-Luminosity LHC operation, scheduled to start in 2027. The new detector, known as the Inner Tracker or ITk, employs an all-silicon design with five inner Pixel layers and four outer Strip layers. The staves are the building blocks of the ITk Strip barrel layers. Each stave consists of a low-mass support structure which hosts the common electrical, optical and cooling services as well as 28 silicon modules, 14 on each side. To characterize the stave, a set of electrical and functional measurements have been performed both at room and at cold temperature. In this conference, the results on the first fully instrumented pre-production staves assembled at Brookhaven National Laboratory will be presented

## Collaboration

ATLAS ITk Strip

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