



Contribution ID: 136

Type: Oral Presentations

Design and prototyping of large-scale flex circuits for the ATLAS ITk Pixel detector

Wednesday, 6 September 2023 18:00 (20 minutes)

The tight space constraints of the ATLAS ITk Pixel system motivate the design of large-scale flex circuits for carrying low-voltage power, high-voltage sensor bias, and command/data transmission. These circuits extend over long distances in the barrel or large areas in the endcap rings, and they pose unique design challenges. We report on the design and prototyping of large-scale flex circuits for the ATLAS ITk Pixel system, with a focus on technical issues encountered and lessons learned.

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Session Classification: E1