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ATLAS-ITk Pixel Module Loading techniques for HL-LHC

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The new ATLAS pixel detector that will operate in the HL-LHC will consist of 5 barrel layers and several end-cap disks, equipped with pixel modules. New strategies are under development to safely and accurately load these pixel modules on carbon-based local-support structures. The local supports provide both, support and cooling to the modules. An efficient thermal path between the module and the local support must be guaranteed to ensure the optimal performance of the modules. Therefore, the interface (adhesive) between the module and the local support must be optimized to mechanically fix the modules and to function as an efficient thermal path. In this contribution the strategies used to load modules in prototypes and their evaluation will be discussed and results presented.

In-person participation

Yes

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