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【356】 The Optosystem: Performance of the electrical-to-optical data conversion system for the ATLAS Itk Pixel upgrade

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After Run III, the ATLAS detector will be upgraded to cope with the harsher radiation environment and increased proton interactions foreseen at High Luminosity LHC. Strict requirements on the quality of data transmission motivates the design of a highly ambitious data transmission system for the detector. The Optosystem performs optical-to-electrical conversion of signals from the pixel modules. This talk presents recent results related to the performance of the Optoboards, development of a GUI for their configuration and the design and production of the Optopanel.

Primary author: Mr DAL SANTO, Daniele (Universität Bern)

Presenter: Mr DAL SANTO, Daniele (Universität Bern)

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