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【338】The ATLAS ITk Pixel Optosystem

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After Run III the ATLAS detector will be upgraded to cope with the harsher radiation environment and increased number of proton interactions in the high luminosity LHC. One of the key projects in this suite of upgrades is the ATLAS Inner Tracker (ITk). The Pixel Detector of the ITk must be read out accurately and at an extremely high rate and for this it relies on the Optosystem, which performs optical-to-electrical conversion of signals from the pixel modules.
Recent Optosystem results on the test of the performance of the data transmission chain pivoted on the Optoboards and on the design, testing and production of the Optopanels will be presented.

Theoretical Work

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