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【324】Characterisation of the opto electrical data conversion system for the ATLAS detector upgrade

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For operation at the High Luminosity LHC, the ATLAS detector will be upgraded in 2024-2026. Its Inner Tracker will be able to handle pile-up conditions of $\mu = 200$ which increases the digital data output significantly. A new optical to electrical conversion stage, the Optoboard system, needs to be designed in order to cope with this higher bandwidth requirement. In this talk I present the first prototype component development for the Optolink system with regards to powering and the cooling control. Results from measurement on full opto-system prototypes are also presented.

Author: Mr MÜLLER, Roman

Presenter: Mr MÜLLER, Roman

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