High-luminosity optical module

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First of all, the new tracker must have a high radiation tolerance, for an integrated luminosity up to 4500 fb−1. For the Outer Tracker, this requirement needs to be fulfilled without the possibility of ...

Tracker Strip Semiconductor Silicon ements of the High Luminosity LHC (HL-LHC), scheduled to begin in 2026. With the radiation damage and high density of tracks expected at the HL-LHC, the current ...

A dedicated data acquisition system, written in C++ and based on a custom micro Data, Trigger, and Control board, equipped with a Xilinx Kintex 7 FPGA, was developed to fully test and characterize ...

In this paper we present the development of the ATx module, an array based parallel optical transmitter that is composed of a 12-channel VCSEL array, an array driver ASIC, a carrier substrate and a micro ...

Its development requires replacing 1.2 kilometres of the LHC with completely innovative components. The first phase of the project began in 2011 and was partly financed by the European Commission''s ...

The high-luminosity upgrade of the LHC (HL-LHC) is foreseen to reach an instantaneous luminosity a factor of five to seven times the nominal LHC design value. This creates the need for ...

The upgraded CERN LHC for high luminosity (HL-LHC) will deliver unprecedented instantaneous luminosities to the detectors which, together with an average of up to 200 simultaneous interactions ...

HiLumi LHC magnet cryo-assemblies over the ha...

ABSTRACT: We present the design and test results of the Miniature optical Transmitter (MTx) and Transceiver (MTRx) for the high luminosity LHC (HL-LHC) experiments.

To fully exploit this unprecedented data set, the experimental setups must be upgraded to withstand the challenging conditions of the HL-LHC, including up to 200 simultaneous collisions per ...

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