

# High Speed Optical and Electrical link developments

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The vast quantities of data being produced by modern particle physics detectors require the use of high-speed serial data transmission technologies in order to enable their successful design. This contribution will review the developments in this area that target the Phase II upgrades of the LHC experiments and may find application in other areas in the same way as their current counterparts have done. The technologies being pursued cover both optical and electrical data transmission links, with the target application typically driving choice based on balancing the pros and cons of the two approaches. The customized front-end components being developed will be described in the context of their uses within complete link systems that are not only capable of reading-out detectors but also provides the means to control them.

**Primary author:** TROSKA, Jan (CERN)

**Presenter:** TROSKA, Jan (CERN)

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