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Sustainability of real-time analysis at 5 TB/s data rate

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The study of power consumption and sustainability of LHC trigger systems is imperative in view of the next high luminosity era for the LHC collider, which will largely increase the output data rate beyond several tens of TB/s. In this talk, we will show the work performed at IFIC in the context of the High-Low project, including some of the proposals that can be considered to optimize energy usage in terms of the computing architectures and the efficiency of the algorithms running on them.

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