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High level triggers of LHC Run-3 and their performance on hybrid computing architectures.

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LHC's Run-3 officially started in July 2022 with LHC delivering first beam at record energy of 13.6 TeV. It is for the first time when LHC experiments are using full software triggers based on GPUs capable of doing full event reconstruction at 30 MHz proton-proton collision rate.

In this talk, I will cover the design architectures and programming principles of Run-3 High level triggers (HLT) of major LHC experiments mainly focusing on HLT1 of LHCb and CMS. I will also share some of the experiences of commissioning of some new algorithms developed for these hybrid systems.

Session

Future Experiments and Detector Development

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