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The CMS Level-1 Vector Boson Fusion trigger for the LHC Run II

The CMS experiment implements a sophisticated two-level triggering system composed of Level-1, instrumented by custom-design hardware boards, and a software High-Level-Trigger. A new Level-1 trigger architecture with improved performance is now being used to maintain the thresholds that were used in LHC Run I for the more challenging luminosity conditions experienced during Run II. The implementation of the first dedicated Vector Boson Fusion trigger algorithm will be described, along with its performance on benchmark physics signals.

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