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

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The CMS experiment implements a sophisticated two-level triggering system composed of a Level-1 trigger, 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, allowing complex correlations to be computed online. The implementation of the first dedicated Vector Boson Fusion trigger algorithm is described and the performance on benchmark physics signal is assessed. Several Higgs searches will benefit from the VBF trigger being included in the L1 trigger selection starting from 2017.

Auteur principal: Mme AMENDOLA, Chiara (Laboratoire Leprince-Ringuet, Ecole polytechnique)

Orateur: Mme AMENDOLA, Chiara (Laboratoire Leprince-Ringuet, Ecole polytechnique)

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