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The Milano-Bicocca FPGA Cluster

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The Milano-Bicocca FPGA cluster represents an incredible opportunity to explore different use cases for the Physics program of the CMS experiment upgrade foreseen for the High Luminosity LHC. In this talk I will describe the FPGA Cluster that will be built in Milano-Bicocca in the context of the ICSC Spoke-2 project, and describe one of the many physics use case that may benefit from an FPGA distributed analysis. In particular, this use case is represented by the search for the rare decay of one W boson into 3 pions using the Level-1 trigger scouting data designed for the Phase-2 upgrade of the CMS experiment.

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