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Searches in CMS for long-lived particles and other non-conventional signatures

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Many models beyond the standard model predict new particles with long lifetimes. These long-lived particles (LLPs) decay significantly displaced from their initial production vertex thus giving rise to non-conventional signatures in the detector. Dedicated data streams and innovative usage of the CMS detector boost are exploited in this context to significantly boost the sensitivity of such searches at CMS. We present recent results of searches for long-lived particles and other non-conventional signatures obtained using data recorded by the CMS experiment during the completed Run-II and the ongoing Run-III of the LHC.

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