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Long-lived particles searches at LHCb

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The unique design of the LHCb detector with a flexible trigger and a precision vertex tracker, offers the possibility to search for long-lived particles with low masses and short lifetimes, in complementarity with other general-purpose detectors at the LHC.
Searches have been performed at LHCb, in fully leptonic and semi-leptonic final states. In particular, searches for long-lived particles produced in pairs from an exotic Higgs boson decay, and a search for heavy neutral leptons from a W boson decay, will be presented.

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