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Search for New Physics with rare decays at LHCb

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Rare lepton decays of the B(s), D and K mesons and lepton flavor violating decays are sensitive probes of New Physics (NP). In particular, the search for the decays $B(s) \rightarrow \mu^+ \mu^-$ provides information on the presence of new (pseudo-)scalar particles, while the angular analysis of decays such as $B \rightarrow K \mu^+ \mu^-$ provides information on possible new vector-axial contributions. The isospin asymmetry of $B \rightarrow K(\mu^+ \mu^-)$ events adds useful information on the structure of NP scenarios and other $b \rightarrow s \mu^+ \mu^-$ transitions provide additional information. Similarly, exclusive radiative decays such as $B_s \rightarrow \phi \gamma$ provide valuable information of NP scenarios through the measurement of the photon polarization.

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Collaboration Name
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LHCb collaboration

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