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Radiative B decays as probes of physics beyond the Standard Model (BSM)

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The LHCb experiment has performed during Run-I of the LHC several studies sensitive to physics that may affect, among other observables, the polarisation of the emitted photon and the branching fractions of several decay modes.

In this talk, the latest results on radiative decays are presented, which access different sources of physics BSM: on one side, the branching fraction of the $B_s^0 \rightarrow J/\psi\gamma$ decay is sensitive to the presence of a charged Higgs, and, on the other, the $B_s^0 \rightarrow \phi\gamma$ time-dependent CP asymmetry gives access to the polarisation of the photon, which can be affected by the existence of right-handed currents or the MSSM.

Oral or Poster Presentation

Oral

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