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Study of $B \rightarrow K(^*) \mu^+ \mu^-$ decays at CMS experiment

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Measurements of rare B meson decay properties provide an alternative approach to direct searches for physics beyond the Standard Model. These decays, which proceed through flavor-changing neutral currents, can have interferences from new physics through loop diagrams. In particular, the angular distribution of the decay $B \rightarrow K(^*) \mu^+ \mu^-$ can be measured as a function of the square of the dimuon invariant mass, an excellent probe to possible new physics scenarios. This talk presents the forward-backward asymmetries of the muons, the K longitudinal polarization fractions and the differential branching fractions, measured with data recorded by the CMS experiment.

Summary

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