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General correlations to R(K(*)) anomalies from a rank condition

Thursday 18 April 2019 15:30 (25 minutes)

In this talk I would like to present a work, close to conclusion, done in collaboration with V. Gherardi, M. Nardecchia, and A. Romanino. We derive general correlations of bsμμ anomalies with other flavour and high-pT observables, under the assumption that the flavour matrix of the relevant operators is of rank-one. This condition is automatically realised in a large class of UV models, including all single-leptoquark scenarios. We find that a sizeable part of the parameter space in this scenario is already excluded, and future measurements by LHCb and Belle-II will test it almost entirely.

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