

Scalar leptoquarks in flavour physics

Saturday 20 July 2024 14:47 (17 minutes)

We reinvestigate contributions of scalar leptoquarks in $R_D^{(*)}$ anomalies and in $B \rightarrow K^{(*)} \nu \bar{\nu}$ decays. Then, we update the constraints on parameter space and find which scalar leptoquarks remain viable and consistent with low-energy and high-energy flavour physics constraints. We comment on the implications of such selection.

Alternate track

1. Quark and Lepton Flavour Physics

I read the instructions above

Yes

Primary author: FAJFER, S

Co-authors: Dr BECIREVIC, Damir (IJCLab, CNRS and Université Paris-Saclay); Mr PAVICIC, Lovre (Jozef Stefan Institute, Ljubljana Slovenia); Dr KOŠNIK, Nejc (J. Stefan Institute, University of Ljubljana)

Presenter: FAJFER, S

Session Classification: Beyond the Standard Model

Track Classification: 03. Beyond the Standard Model