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Analysis of $B \rightarrow K_1 ll$ process in the scalar leptoquark model

We investigate the effect of scalar leptoquark on the rare semileptonic $B \rightarrow K_1 ll$ decay mode. We constrain the leptoquark coupling by using the updated experimental limits on the branching ratios of $b \rightarrow sll$ processes and the lepton nonuniversality $R_{K^{(*)}}$ parameters. Using the constrained new parameters, we estimate the branching ratios, forward-backward asymmetry, lepton non-universality parameters of $B \rightarrow K_1 ll$ channel.

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