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Analysis of $B \rightarrow K_1 \ell \ell$ channels in an effective field theory approach (canceled)

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We analyse the rare semileptonic decays of B meson to axial vector mesons $K_1(1270)$ and $K_1(1400)$ mediated by the flavor changing neutral current $b \rightarrow s \ell \ell$ quark level transition, in an effective field theory approach. We perform a global fit to all the relevant and up-to-date $b \rightarrow s \ell^+ \ell^-$ data for various sets of (axial)vector couplings. We then look over the implications of the allowed parameter space on the branching ratios and several physical observables such as forward-backward asymmetry, lepton polarization asymmetry and lepton flavor universality violating parameters of $B \rightarrow K_1 \ell^+ \ell^-$ processes.

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