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Flavor Physics in a Warped Extra Dimension

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A comprehensive analysis of tree-level weak interaction processes at low energy is presented for different implementations of the Randall-Sundrum model with gauge and matter fields in the bulk and brane-localized Higgs sector. The complete form of the effective weak Hamiltonian is obtained, which results from tree-level exchange of Kaluza-Klein (KK) gluons and photons, the W and Z bosons and their KK excitations, as well as the Higgs boson. A detailed phenomenological analysis is performed for potential new-physics effects in neutral-meson mixing and in rare decays of kaons and B mesons, including both inclusive and exclusive processes.

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