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Violation of lepton flavour universality in composite Higgs models

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We investigate whether the 2.6σ deviation from lepton flavour universality in $B^+ \rightarrow K^+ \ell^+ \ell^-$ decays recently observed at the LHCb experiment can be explained in minimal composite Higgs models. We show that a visible departure from universality is indeed possible if left-handed muons have a sizable degree of compositeness. Constraints from Z -pole observables are avoided by a custodial protection of the muon coupling.

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