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Indirect searches for New Physics in rare kaon decays

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The ratio of charged kaon leptonic decay rates

$R_K = \text{BR}(K \rightarrow e \nu) / \text{BR}(K \rightarrow \mu \nu)$ is strongly suppressed and predicted to an excellent precision within the Standard Model. It therefore has a unique sensitivity to deviations from lepton universality arising in multi-Higgs new physics models, including SUSY.

A new measurement of R_K based on the full dedicated data sample collected by the NA62 experiment at CERN in 2007 is reported. The record accuracy of 0.4% constrains the parameter space of models with extended Higgs sector.

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