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Searches for lepton flavour and lepton number violation in kaon decays at CERN

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Searches for lepton flavour and lepton number violation in kaon decays by the CERN NA48 and NA62 experiments are reported. A new measurement of the helicity suppressed ratio of charged kaon leptonic decay rates to sub-percent precision at the CERN NA62 experiment is presented. The strong suppression and the high precision of the SM expectation provide a unique sensitivity to deviations from lepton universality arising in multi-Higgs new physics models. A new upper limit on the $K^+ \rightarrow \pi^- \mu^+ \mu^+$ decay rate from the CERN NA48 experiment is presented, which translates into the most stringent direct constraint on the corresponding effective Majorana neutrino mass, and can be used to constrain SUSY models.

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Classification de thématique: Experiment