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Searches for Lepton number violation and resonances in the K+- −>pi mu mu decays at the NA48/2 experiment

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The NA48/2 experiment at CERN collected in 2003-2004 a large sample of charged kaon decays with multiple charged particles in the final state.
A new upper limit on the rate of the lepton number violating decay K+- −> pi-+ mu+- mu+- obtained from this sample is reported.
Searches for two-body resonances in the K+- −>pi mu mu decays (including heavy neutral leptons and inflatons) in the accessible
range of masses and lifetimes are presented.

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