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Searches for Lepton number violation and resonances in the $K^{\pm} \rightarrow \pi \mu \mu$ 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 $K^{\pm} \rightarrow \pi^{\pm} \mu^{\pm} \mu^{\pm}$ obtained from this sample is reported.

Searches for two-body resonances in the $K^{\pm} \rightarrow \pi \mu \mu$ decays (including heavy neutral leptons and inflatons) in the accessible

range of masses and lifetimes are presented.

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