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Model independent measurement of the leptonic kaon decay $K^{+-} \rightarrow \mu^{+-} \nu e^+ e^-$ ($12' + 3'$)

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The NA48/2 experiment at CERN collected a very large sample of charged kaon decays into multiple final states. From this data sample we have reconstructed about 1500 events of the very rare decay $K^{+-} \rightarrow \mu^{+-} \nu e^+ e^-$ over almost negligible background in the region with $m(e^+e^-)$ above 140 MeV, which is of great interest in Chiral Perturbation Theory. We present the m_{ee} spectrum and a model-independent measurement of the decay rate for this region.

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