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Studies of the decay K^+ to $\pi^+ \pi^0 e^+ e^-$ at NA48

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We report the first observation of the very rare decay $K^+ \rightarrow \pi^+ \pi^0 e^+ e^-$ by the NA48/2 experiment. From a clean sample of almost 2000 reconstructed signal events, we have determined the branching fraction with high precision and measured the $e^+ e^-$ invariant mass distribution, which allows to differentiate between different decay models.

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