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Precision measurement of the form factors of semileptonic charged kaon decays

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We present a measurement of the charged kaon semileptonic form factors based on 4.3 million $K^{\pm} \to \pi^0 e^{\pm} \nu_e$ and 2.1 million $K^{\pm} \to \pi^0 \mu^{\pm} \nu_{\mu}$ decays collected by the NA48/2 experiment. The single results for the semi-electronic and semi-muonic channel have better and similar precision, respectively, than previous measurements. The combination of both channels yields the most precise measurement of the form factors of semileptonic kaon decays.

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