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Precision measurement of the form factors of the charged kaon semileptonic decays K_{l3}^{\pm}

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The NA48/2 experiment presents a final result of the charged kaon semileptonic decays form factors measurement based on 4.28 million K_{e3}^{\pm} and 2.91 million $K_{\mu3}^{\pm}$ selected decays collected in 2004. The result is competitive with other measurements in $K_{\mu3}^{\pm}$ mode and has a smallest uncertainty for K_{e3}^{\pm} , that leads to the most precise combined K_{l3}^{\pm} result and allows to reduce the form factor uncertainty of $|V_{US}|$.

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