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Beyond the Standard Model (experiment and theory)

Electroweak physics

Experiment: -

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# Strange Vector Form Factor of Kaons

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## Abstract

Starting from the  $\omega$ - $\phi$  mixing, further assuming the coupling of the quark-current of some flavour to be of universal strength exclusively to the component of vector-meson wave function with the same flavour and finally taking numerical values of the coupling constant ratios  $(f_{\omega K\bar{K}}/f_{\omega}^e)$ ,  $(f_{\phi K\bar{K}}/f_{\phi}^e)$  from the isoscalar part of a realistic six-resonance unitary and analytic model of the kaon electromagnetic structure, the strange-quark vector current form factor behaviour of K-mesons in space-like and time-like regions is predicted.

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