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## Study of the kaon electromagnetic form factors in $e^+e^-$ annihilation and $\tau$ decays

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The recent measurements of the  $\tau^- \rightarrow K^- K_S \nu_\tau$  decay spectral function carried out with BABAR detector is described. Combining the results on  $K^- K$  mass spectrum and measurements of  $e^+e^- \rightarrow K_S K_L$  and  $e^+e^- \rightarrow K^+ K^-$  cross sections, the isoscalar and isovector electromagnetic kaon form factors and their relative phase are derived in a model independent way. The experimental results are compared with a fit based on the vector-meson-dominance model.

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