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Study of the kaon electromagnetic form factors in e^+e^- annihilation and τ 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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