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CP measurements in $K^{+-} \rightarrow \pi^+ l^- l^+$ and $K_S \rightarrow \pi^+ \pi^- e^+ e^-$ decays at NA48

We report on the measurements of the branching ratios and form factors for the rare decays $K^{+-} \rightarrow \pi^+ l^- l^+$ done with the full NA48/2 data set. Our results improve the existing world averages significantly and the CP violating asymmetry between K^+ and K^- in this channel results to be less than a few percent. In addition, the branching ration of the decay $K_S \rightarrow \pi^+ \pi^- e^+ e^-$ has been measured, and the result is used to set an upper limit on the presence of E1 direct emission in the decay amplitude. The CP-violating asymmetry has been also measured.

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