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Measurement of $K_s \rightarrow \pi^+ \pi^- \pi^0$ decay mode at NA48

The $K_S \rightarrow \pi^+ \pi^- \pi^0$ decay mode has been investigated using the data collected in 2002 by the NA48/1 collaboration. With about 23k signal events and 59k $K_L \rightarrow \pi^+ \pi^- \pi^0$ normalization decays, the $K_S \rightarrow \pi^+ \pi^- \pi^0$ branching ratio was determined with respect to the K_L one. This result is also 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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