

Prospects for $K^+ \rightarrow \pi^+ \nu \nu$ observation at CERN in NA62

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The rare decays $K^+ \rightarrow \pi^+ \nu \nu$ are excellent processes to make tests of new physics at the highest scale complementary to LHC thanks to their theoretical cleanliness.

The NA62 experiment at CERN SPS aims to collect of the order of 100 events in two years of data taking, keeping the background at the level of 10%.

Part of the experimental apparatus has been commissioned during a technical run in 2012. The physics prospects and the status of the experiment will be reviewed in view of the first physics run scheduled for 2014.

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