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Status and prospects of the NA62 experiment

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Summary

The NA62 experiment at CERN aims to measure the ultra-rare decay $K^+ \rightarrow \pi^+ \nu \bar{\nu}$, which, together with its neutral counterpart, can provide stringent limits for physics beyond the Standard Model. NA62 collected two months of data during a pilot run in 2014, that provided the first insights in the detector performance. In 2015 the detector was completed and data collected to assess the sensitivity of the experiment.

With the full detector installed and a steadily improving understanding of its performance, NA62 physics reach will extend beyond $K^+ \rightarrow \pi^+ \nu \bar{\nu}$, for example in heavy neutrino, dark photon and axion searches, profiting from a beam line designed to provide a uniquely intense kaon beam.

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