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【367】 Recent results from the NA62 experiment at CERN SPS

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The NA62 experiment, located at CERN SPS, is designed to study the ultra-rare decay $K^+ \rightarrow \pi^+ \nu \bar{\nu}$. It has collected the world largest charged kaon decay sample with a decay in flight technique. In this talk, the result with the data set collected in Run 1 (2016-2018) will be presented, which is the most accurate measurement achieved so far. Updates with Run 2 (2021 onwards) data set will also be discussed. Thanks to the design of this experiment, other rare kaon decays and hidden sector searches are also performed in NA62 and are introduced in this talk.

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