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NA62 experiment at CERN: status and recent results

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Measurements of the ultra-rare K –> pi nu nu decays represent a stringent test of the CKM paradigm, probing short distance scales beyond the reach of the LHC. The main goal of the NA62 experiment at CERN is the measurement of the K+ –> pi+ nu nu decay rate at 10% precision; the broader physics programme includes searches for lepton flavour and lepton number violation in kaon decays at record sensitivity, as well as rare kaon and pion decay measurements. The NA62 is currently in the middle of the data taking campaign (2016-2018). Its status, physics reach and recent results, including new limits on heavy neutral lepton production in kaon decays, are presented.

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