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Kaons at CERN: The NA62 experimental program

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Kaons are a laboratory where a broad physics programme can be addressed. From the study of fundamental symmetries to the exploration of the hadron structure, from the search for phenomena beyond the Standard Model to the comprehension of the simplest hadronic states, many investigations profit from the remarkably clean theoretical and experimental environment provided by kaons. NA62 is a new experiment at CERN exploiting the high energy protons from the Super Proton Synchrotron. The main goal of NA62 is the study of very rare kaon decays and to this purpose the experiment incorporates state-of-the-art detectors including innovative trackers, high performance calorimetry and complete particle identification capability. The presentation will review the status of the experiment and its perspectives.

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