



VIDEO Colloquium: **Rare Kaon Decays: Results from NA62.**

Tuesday, 16 February, 2021

Webcast 16:45 h

Augusto Ceccucci (CERN)

Historically important to build the Standard Model (SM) of particle physics, rare kaon decays are still a privileged tool to look beyond it. The main reasons to continue the study of rare kaon decays are testing the CKM quark mixing and CP-violation paradigm, making quantitative comparisons with the B sector and searching for explicit violations of the SM. Current research focuses mostly on $K \rightarrow \pi \nu \bar{\nu}$ decays which are predicted with good accuracy within the SM and beyond. Experimentally, these decays, especially the one of the charged kaon, have a long history. Their theoretical importance is matched only by their experimental difficulty. NA62 is the CERN experiment at the SPS built to study precisely $K^+ \rightarrow \pi^+ \nu \bar{\nu}$ and other rare decays. Results based on the full 2016-2018 data set will be presented.



[Zoom connection details:](#)

Meeting ID: 996 1652 8733

Meeting Password: 733220

