

Kaon experiments at CERN: recent results and prospects

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Collaboration

NA48/2 and NA62

Abstract content

CERN has hosted a sequence of dedicated high intensity kaon physics experiments over several decades. The most recent of these experiments are NA48/2 (collected data in 2003-2004), NA62-RK (collected data in 2007) and NA62 (on-going, first physics data collected in 2015). Recent new results from these experiment are presented, including a search for lepton number violation in kaon decays, searches for exotic particles (heavy neutral leptons, dark photon, inflaton) in charged kaon and neutral pion decays, and measurement of the form factor of the neutral pion. The status and prospects of the on-going NA62 experiment and the quality of the data collected recently are also discussed.

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