

Search for hidden-sector particles at NA62

Fixed target experiments are a particularly useful tool in the search of very weakly coupled particles in the MeV-GeV range, which are of interest, e.g. as potential Dark Matter mediators. The NA62 experiment at the CERN SPS is currently taking data to measure the rare decay $K \rightarrow \pi \nu \bar{\nu}$. Owing to the high beam-energy and a hermetic detector coverage, NA62 also has the opportunity to directly search for a plethora of hidden-sector particles (visible or invisible searches). We will detail on status and prospects of these searches.

Primary author: LAZZERONI, Cristina (U)

Presenter: LAZZERONI, Cristina (U)

Track Classification: 7) Energy frontier physics beyond the standard model