

Contribution ID: 1 Type: not specified

Searches for Sterile Neutrinos at CERN: Contribution to European Strategy for Particle Physics

These are some suggestions concerning ongoing and future tests that can be performed at CERN to search for possible sterile neutrinos and set constraints on their masses and mixings. In addition to European participation in neutrino oscillation experiments, in searches for neutrinoless double beta decay, and in KATRIN, it is emphasized here that sensitive searches for sterile neutrinos can be carried out onsite at CERN, including further searches for heavy neutrinos by NA62 and the proposed SHIP experiment, and related general searches for long-lived neutral weakly interacting particles.

Primary author: SHROCK, Robert (Stony Brook University)

Track Classification: Neutrino physics (accelerator and non-accelerator)