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Session 8: Searches for phenomena beyond the Standard Neutrino Model

Prospects for the search for sterile neutrinos below the Fermi scale at the intensity frontier

R Jacobsson

CERN, Switzerland

Heavy sterile neutrinos with masses below the Fermi scale offer a particularly interesting possibility to address several of the major shortcomings of the Standard Model without introducing a new energy scale. This talk will review the status of the search for such heavy sterile neutrinos at the intensity frontier. After a brief introduction to the motivation and phenomenology of this class of sterile neutrinos and the available parameter space from theory and past experiments, the talk will focus on the prospects at current experiments and in particular at future intensity frontier experiments using extracted beams and at lepton colliders.