

Sterile Neutrino Decay

Sterile neutrinos are hypothetical particles introduced to resolve anomalies in neutrino oscillation experiments. In a 3+1 sterile model, one heavier, mostly sterile neutrino mass eigenstate joins the three light, mostly active neutrino mass eigenstates. This simple model does not fit the world's data well. We consider an extension of the 3+1 scenario where the heaviest mass eigenstate decays. This would modify results of searches for sterile neutrinos, as well as allowed regions obtained from global fits.

Session and Location

Monday Session, Poster Wall #131 (Hölderlin-Room)

Poster included in proceedings:

yes

Primary author: MOULAI, Marjon (Massachusetts Institute of Technology)

Co-authors: DIAZ, Alejandro (Massachusetts Institute of Technology); Dr ARGUELLES, Carlos (Massachusetts Institute of Technology); Prof. CONRAD, Janet (MIT); Prof. SHAEVITZ, Michael (Columbia University); MOSS, Zander (Massachusetts Institute of Technology)

Presenter: MOULAI, Marjon (Massachusetts Institute of Technology)

Track Classification: Poster (participating in poster prize competition)