Contribution ID: **86** Type: **not specified**

Investigating two heavy neutral leptons neutrino seesaw mechanism at SHiP

Wednesday, 10 April 2019 10:18 (12 minutes)

One of the main purposes of SHiP experiment is to shed light on neutrino mass generation mechanisms like the so-called seesaw. We consider a minimal type-I seesaw neutrino mass mechanism model with two heavy neutral leptons (right- handed or sterile neutrinos) with arbitrary masses. Extremely high active-sterile mixing angle requires a correlation between the phases of the Dirac neutrino couplings. Actual experimental limits on the half-life of neutrinoless double
beta decay $0\nu\beta\beta$-rate on the active-sterile mixing angle are not significative in constraining the masses or the mixing measurable by SHiP.

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Session Classification: Frontiera dell'Intensità

Track Classification: Frontiera dell'Intensità