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Neutrino Masses and Sterile Neutrino Dark Matter from the PeV Scale

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The Higgs boson mass of 125 GeV is suggestive of superpartners at the PeV scale. This talk discusses how new physics at this scale can also produce active neutrino masses via a modified, low energy seesaw mechanism and provide a sterile neutrino dark matter candidate with keV-GeV scale mass. Possible connections to the 3.5 keV X-ray line and the PeV neutrino events at IceCube will also be discussed.

Oral or Poster Presentation

Oral

Author: SHAKYA, Bibhushan (MCTP)

Co-authors: WELLS, James Daniel (University of Michigan (US)); ROLAND, Samuel (University of Michigan)

Presenter: SHAKYA, Bibhushan (MCTP)

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