



Contribution ID: 265

Type: **Poster session only**

Signatures of ultralight scalars in neutrino oscillations

Ultralight bosonic dark matter can induce temporal variation in the masses and coupling of the Standard Model. A coupling between this dark matter candidate and neutrinos could lead to three different signatures in oscillation experiments: a time modulation of the signal, a distortion in the oscillation probability or it could manifest as a fast-varying matter potential.

arXiv number (if applicable)

2007.03590

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Session Classification: Poster Session