

# Resonant neutrino self-interactions in cosmology

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Neutrino-neutrino dispersion models have gained popularity as potential solutions for reconciling the discrepancy between local measurements of the Hubble constant ( $H_0$ ) and the model-dependent measurements derived from the cosmic microwave background radiation and other early Universe probes. This work addresses the current state of neutrino self-interactions, with a specific focus on the phenomenology associated with resonant interactions. We compare our results to existing limits on mediator mass, encompassing both extremely light and heavy scalar particles.

## Poster prize

Yes

## Given name

Jorge

## Surname

Venzor

## First affiliation

Centro de Investigación y de Estudios Avanzados (CINVESTAV)

## Second affiliation

## Institutional email

jorge.venzor@cinvestav.mx

## Gender

Male

## Collaboration (if any)

**Autore principale:** VENZOR, Jorge

**Coautore:** Dr. GARCIA-ARROYO, Gabriela; Dr. DE-SANTIAGO, Josue; Prof. PÉREZ-LORENZANA, Abdel

**Relatore:** VENZOR, Jorge

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