

## Testing non-standard neutrino interactions in (anti)-electron neutrino disappearance experiments

*Monday, 30 August 2021 19:15 (15)*

We search for scalar and tensor non-standard interactions using (anti)-electron neutrino disappearance in oscillation data. We found a slight preference for non-zero CP violation, coming from both tensor and scalar interactions. The preference for CP violation is lead by Daya Bay low-energy data with a significance that reaches  $\sim 1.7\sigma$  in the global analysis (and  $\sim 2.1\sigma$  when considering only medium baseline reactors data) compared to the standard oscillation scenario.

### Reference to paper (DOI or arXiv)

2106.15725

### Your gender (free text)

**Primary author(s)** : CHAVES, Mariano (Universidade Estadual de Campinas)

**Co-author(s)** : Prof. PERES, Orlando (Universidade Estadual de Campinas); Prof. HOLANDA, Pedro (Universidade Estadual de Campinas)

**Presenter(s)** : CHAVES, Mariano (Universidade Estadual de Campinas)

**Session Classification** : Poster session 1

**Track Classification** : Neutrino physics and astrophysics