



Contribution ID: 642

Type: **Parallel Talk**

EFT analysis of $\text{CE}\nu\text{NS}$ data

Friday, 8 July 2022 18:00 (15 minutes)

We examine the latest measurements coming from the COHERENT experiment within an EFT framework. To do so, we put forward a formalism which for the first time models correctly within the QFT characterization the interplay between production and detection. After discussing all details involved, we perform a complete phenomenological analysis for $\text{CE}\nu\text{NS}$ data measured on Argon and Cesium-Iodine nuclei considering as observables not only the total number of events but also the recoil energy distributions.

In-person participation

Yes

Primary authors: FALKOWSKI, Adam (LPT Orsay); GONZALEZ-ALONSO, Martin (CERN); BRESÓ, Víctor (IFIC - Universitat de Valencia); Mr MONSALVEZ POZO, Kevin (IFIC - Universitat de Valencia)

Presenter: BRESÓ, Víctor (IFIC - Universitat de Valencia)

Session Classification: Neutrino Physics

Track Classification: Neutrino Physics