

## **Session Program**

**Jun 12 - 14, 2024**

# **Magnificent CEvNS 2024**

## ***Talks***

ADEIT Salón de actos  
Plaza Virgen de la Paz, 3. 46001 Valencia

# Wed, June 12

9:20 AM

## Talks

**Session** | **Location:** ADEIT Salón de actos, Plaza Virgen de la Paz, 3. 46001 Valencia | **Convener:** Prof. Jose Valle

9:20 – 9:40 AM

### A bird's eye view: global analysis of nuclear and electroweak properties and the role of CEvNS

**Speaker**

Matteo Cadeddu

9:40 – 10:00 AM

### The devil is in the details: the role of the radiative corrections

**Speaker**

Francesca Dordei

10:00 – 10:20 AM

### Nuclear structure theory for CEvNS

**Speaker**

Javier Menéndez Sánchez

10:20 – 10:40 AM

### CEvNS phenomenology with reactors

**Speaker**

Omar Miranda

10:40 – 11:00 AM

### CEvNS: Inelastic Exploration

**Speaker**

Prof. Bhaskar Dutta

11:00 AM

3:00 PM

## Talks

**Session** | **Location:** ADEIT Salón de actos, Plaza Virgen de la Paz, 3. 46001 Valencia | **Convener:** Louis Strigari

3:00 – 3:15 PM

### CEvNS in dark matter experiments to constrain neutrino NSI

**Speaker**

David Cerdeño

3:15 – 3:30 PM

### COHERENT bounds on light mediator models

**Speaker**

Christoph Andreas Ternes

3:30 – 3:45 PM

### COHERENT production of a sterile fermion

**Speaker**

Pablo Muñoz Candela

3:45 – 4:00 PM

### Probing neutrino magnetic moments with CEvNS

**Speaker**

Prof. Yufeng Li

4:00 - 4:15 PM

**Global constraints on non-standard neutrino interactions with quarks and electrons**

**Speaker**

Joao Paulo Pinheiro

4:15 - 4:30 PM

**SMEFT induced neutrino non-standard interactions in the context of CEvNS and neutrino oscillations**

**Speaker**

Yong Du

4:30 PM

5:00 PM

**Talks**

**Session** | **Location:** ADEIT Sal3n de actos, Plaza Virgen de la Paz, 3. 46001 Valencia | **Convener:** Gonzalo Sanchez Garcia

5:00 - 5:15 PM

**The RED-100 results & prospects**

**Speaker**

Olga Razuvaeva

5:15 - 5:30 PM

**Looking for CEvNS with the  $\nu$ GeN experiment**

**Speaker**

Alexey Konovalov

5:30 PM

# Thu, June 13

11:10 AM

## Talks

**Session** | **Location:** ADEIT Salón de actos, Plaza Virgen de la Paz, 3. 46001 Valencia | **Convener:** Diego Aristizabal

11:10 - 11:30 AM **Incoherent solar neutrino scattering off Thallium isotopes**

**Speaker**

Dr Dimitrios Papoulias

11:30 - 11:50 AM **The neutrino fog**

**Speaker**

Ciaran O'Hare

11:50 AM - 12:10 PM **CE $\nu$ NS-based Supernova Neutrino Detection with LZ**

**Speaker**

M. Elise McCarthy

12:10 - 12:30 PM

**Experimental search for the Migdal Effect in a compact liquid xenon TPC**

**Speaker**

Dr Brian Lenardo

12:30 - 12:50 PM **The MIGDAL experiment**

**Speaker**

Dinesh Loomba

12:50 PM

# Fri, June 14

9:20 AM

## Talks

**Session** | **Location:** ADEIT Salón de actos, Plaza Virgen de la Paz, 3. 46001 Valencia | **Convener:** Francesca Dordei

9:20 - 9:40 AM **Status of NEON**

**Speaker**

Dr Young Ju Ko

9:40 - 10:00 AM **Imaging Nuclear Recoils in Argon**

**Speaker**

Prof. David Caratelli

10:00 - 10:20 AM **CEvNS at the ESS.**

**Speaker**

Francesc Monrabal

10:20 - 10:40 AM

**CEvNS Detection via  $^{12}\text{C}$  Recoils in Large Scale Liquid Scintillation Detectors - Prospects, R&D and Challenges -**

**Speaker**

Dr Hans Theodor Josef Steiger

10:40 - 11:00 AM **CEvNS detection in XENONnT**

**Speaker**

L D. García

11:00 AM

2:30 PM

## Talks

**Session** | **Location:** ADEIT Salón de actos, Plaza Virgen de la Paz, 3. 46001 Valencia | **Convener:** David Cerdeño

2:30 - 2:45 PM **Dark Sector Searches with Coherent CAPTAIN-Mills**

**Speaker**

Austin Schneider

2:45 - 3:00 PM **Long-Lived Particles at Spallation Neutron Sources**

**Speaker**

Matheus Hostert

3:00 - 3:15 PM

**Toward the low-mass dark matter searches with DarkSide-20k: the solar neutrino and the argon-39 backgrounds**

**Speaker**

Nicola Cargioli

3:15 - 3:30 PM

**Detecting Charged-Current Neutrino-Nucleus Interactions on Oxygen in a Heavy-Water Cherenkov Detector**

**Speaker**  
Eli Mygatt Ward

3:30 - 3:45 PM **Optimizing the directional detection of low-energy electron recoils**

**Speaker**  
Majd Ghrear

3:45 - 4:00 PM

**Exploring DSNB bossted Sub-GeV Dark Matter through Electron and Nuclear Recoil Signal at XENONnT and LUX-ZEPLIN Experiments**

**Speaker**  
Mr Anirban Majumdar

4:00 PM