

Session Program

1-5 Dec 2025

**X ComHEP: Colombian Meeting on High
Energy Physics**

Neutrinos

Wednesday 3 December

09:00

Neutrinos

Session |
Location: Sede de Investigación Universitaria (SIU) - Universidad de Antioquia Calle 62 N.º 52 - 59 , Medellín - Colombia |
Convener: David Vanegas Forero

09:00–09:45 **DUNE**

Speakers
Prof. David Martinez, David Martinez Caicedo

09:45–10:30
Could a primordial black hole explosion explain the extremely high-energy KM3NeT neutrino event?

Speaker
Yuber Perez

10:30–10:50
Monte Carlo simulation of thermal neutron detection using boron-doped graphene films coupled with SiPM sensors

Speaker
Luis Ricardo Beltran Garcia

10:50

Friday 5 December

11:10

Neutrinos

Session |

Location: Sede de Investigación Universitaria (SIU) - Universidad de Antioquia Calle 62 N.º 52 - 59 , Medellín - Colombia |

Convener: Amalia Betancur Rodríguez

11:10–11:30

CEvNS and Light Z' Mediators: An Alternative Statistical Analysis of CONUS+ CEvNS Data

Speaker

Cristian Santiago Muñoz López

11:30–11:50

Constraints on Non-Standard Neutrino Interactions from $\text{CE}\nu\text{N}$: A Statistical Study Using CONUS+ Data

Speaker

Christian Martínez

11:50–12:35

ALP searches in short-baseline neutrino detectors

Speaker

Diego Aristizabal

12:35–13:20

High energy primordial neutrinos: theoretical/observational constraints, and sharp spectral features

Speaker

THOMAS HAMBYE

13:20