

## **Session Program**

**23 October 2025**

# **Workshop on Searches for New Bosons From Astrophysics Sources @ the LHC: the case of Boson Stars**

## ***Astrophysics Searches for New Bosons***

CERN, Pauli Room  
CERN

## Thursday 23 October

14:15

### Astrophysics Searches for New Bosons

**Session** | **Location:** CERN, Pauli Room, CERN | **Conveners:** Toni Font, Antonio Onofre

14:15–14:35

#### Stars made of Light Bosons: the Astrophysics case

**Speaker**

Carlos Herdeiro

14:35–14:55

#### Dynamics of Boson Stars and Gravitational Waves

**Speaker**

Dr Nicolas Sanchis-Gual

14:55–15:15

#### Parameter inference in Gravitational-Wave Astronomy using Bayesian Algorithms: the mass extraction of new Bosons using Gravitational Waves

**Speaker**

Juan calderon bustillo

15:15–15:35

#### The LIGO-Virgo-KAGRA (LVK) Search for Ultra Light Bosons

**Speaker**

Toni Font

15:35