

# **Cross-Collserola PhD Meeting in Astrophysics, Cosmology and Particles 2023**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Reception

*Friday, 6 October 2023 09:15 (15 minutes)*

Time for informal talks and getting your accreditations!

Contribution ID: 2

Type: **not specified**

## Welcome!

*Friday, 6 October 2023 09:30 (30 minutes)*

Welcome talks from the SOC and institute directors.

Contribution ID: 24

Type: **not specified**

## Symmetries in Neural Quantum States

*Friday, 6 October 2023 10:00 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** ROZALÉN SARMIENTO, Javi (Universitat de Barcelona)

**Session Classification:** Morning talks

Contribution ID: 25

Type: **not specified**

# What is the space of consistent Effective Field Theories?

*Friday, 6 October 2023 10:10 (10 minutes)*

## **Preferred format of the contribution**

**Presenter:** SCIOTTI, Francesco (IFAE)

**Session Classification:** Morning talks

Contribution ID: 26

Type: **not specified**

## What the hell is AdS/CFT?

*Friday, 6 October 2023 11:20 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** LLORENS, Quim (Institute of Cosmos Sciences - University of Barcelona (ICCUB))

**Session Classification:** Morning talks

Contribution ID: 27

Type: **not specified**

## **What ChatGPT (doesn't) know about the Swampland**

*Friday, 6 October 2023 10:20 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** Mr LEHNERT, Kay (Maynooth University)

**Session Classification:** Morning talks

Contribution ID: 28

Type: **not specified**

## Exotic Stars

*Friday, 6 October 2023 10:30 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** VAN DISSEL, Fabio (IFAE)

**Session Classification:** Morning talks



Contribution ID: 29

Type: **not specified**

## **LHCb Experiment**

*Friday, 6 October 2023 10:40 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** LOBO SALVIA, Aniol (Institut de Ciències del Cosmos (ICCUB))

**Session Classification:** Morning talks

Contribution ID: **30**

Type: **not specified**

## **B-jet identification in the ATLAS Experiment at CERN**

*Friday, 6 October 2023 10:50 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** MARTÍNEZ SUÁREZ, Paula (Institut de Física d'Altes Energies (IFAE-BIST) (ES))

**Session Classification:** Morning talks

Contribution ID: 31

Type: **not specified**

## **Anomaly detection at ATLAS with not-so-dense(ity) estimators**

*Friday, 6 October 2023 11:00 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** HARRISON, Jack (IFAE - Barcelona)

**Session Classification:** Morning talks

Contribution ID: 32

Type: **not specified**

## **Low gain avalanche diode for HGTD ATLAS**

*Friday, 6 October 2023 11:10 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** GAUTAM, Viveka (IFAE)

**Session Classification:** Morning talks

Contribution ID: 33

Type: **not specified**

## **Where do gravitational waves with non-negligible eccentricity come from?**

*Friday, 6 October 2023 12:00 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** MARIN PINA, Daniel (ICCUB)

**Session Classification:** Morning talks

Contribution ID: 34

Type: **not specified**

## Hyperons in a binary neutron star merger

*Friday, 6 October 2023 12:10 (10 minutes)*

### Preferred format of the contribution

**Presenter:** KOCHANKOVSKI, Hristijan (Departament de Física Quàntica i Astrofísica and Institut de Ciències del Cosmos, Universitat de Barcelona, Martí i Franqués 1, 08028, Barcelona, Spain)

**Session Classification:** Morning talks

Contribution ID: 35

Type: **not specified**

## **Neutron stars: from macroscopic to microscopic dynamics**

*Friday, 6 October 2023 12:20 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** HERNÁNDEZ, José Luis (Institut de Ciències de l'Espai, CSIC)

**Session Classification:** Morning talks

Contribution ID: 36

Type: **not specified**

## **Massive Compact Stars as Hybrid Stars**

*Friday, 6 October 2023 12:30 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** BIESDORF, Carline (Universidade Federal de Santa Catarina)

**Session Classification:** Morning talks



Contribution ID: 37

Type: **not specified**

## **Simulation-based inference for pulsar-population synthesis**

*Friday, 6 October 2023 12:40 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** PARDO ARAUJO, Celsa (Institute of Space of Science)

**Session Classification:** Morning talks

Contribution ID: 38

Type: **not specified**

## **The Large Magellanic Cloud dynamics with high resolution glasses**

*Friday, 6 October 2023 12:50 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** JIMÉNEZ ARRANZ, Óscar

**Session Classification:** Morning talks

Contribution ID: 39

Type: **not specified**

## **Inverse galaxy-galaxy lensing: Magnification, intrinsic alignments and cosmology**

*Friday, 6 October 2023 13:00 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** CROSS, Dane (Institut de Física d'Altes Energies)

**Session Classification:** Morning talks

Contribution ID: 40

Type: **not specified**

## **Planetary like Radio emission from Massive Sub-Stellar Objects**

*Friday, 6 October 2023 13:10 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** KAUR, Simranpreet (Institute of Space Sciences (ICE-CSIC), Barcelona)

**Session Classification:** Morning talks

Contribution ID: 41

Type: **not specified**

## **BAO from the DESI Lyman-alpha Forest**

*Friday, 6 October 2023 13:20 (10 minutes)*

### **Preferred format of the contribution**

**Presenter:** GORDON, calum (IFAE)

**Session Classification:** Morning talks