

**Kick-off meeting UNDARK**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Welcome and introduction to UNDARK

*Tuesday 8 October 2024 09:15 (20 minutes)*

**Presenter:** MARTIN CAMALICH, Jorge (Instituto de Astrofísica de Canarias)

**Session Classification:** Management

Contribution ID: 2

Type: **not specified**

## Welcome from EU's Project Officer

*Tuesday 8 October 2024 09:35 (20 minutes)*

**Presenter:** FERNANDEZ HORCAJADA, Raquel (EU comission)

**Session Classification:** Management

Contribution ID: 3

Type: **not specified**

## **Bridging Art and Science: enhancing the communication of scientific projects**

*Wednesday 9 October 2024 14:00 (30 minutes)*

**Presenter:** BARLIER, Ève (IAC)

**Session Classification:** Management

Contribution ID: 4

Type: **not specified**

## **Project management and training within UNDARK**

*Tuesday 8 October 2024 10:25 (20 minutes)*

**Presenter:** CAIRES SOUSA BRANCO, Ana Sofia (Saturntech)

**Session Classification:** Management

Contribution ID: 5

Type: **not specified**

## **Introduction to IAC's Science and Infrastructures**

*Tuesday 8 October 2024 09:55 (30 minutes)*

**Presenter:** SOSA MÉNDEZ, Anselmo (IAC)

**Session Classification:** Management

Contribution ID: 7

Type: **not specified**

## **The multiwavelength signature of the multizone jets of Mkn 421**

*Tuesday 8 October 2024 14:00 (30 minutes)*

**Presenter:** KANTZAS, Dimitrios (LAPTh)

**Session Classification:** High energy astroparticle physics

Contribution ID: 8

Type: **not specified**

## Superluminous supernovae and magnetars

*Tuesday 8 October 2024 11:15 (30 minutes)*

**Presenter:** Dr POIDEVIN, Frederick (IAC)

**Session Classification:** High energy astroparticle physics



Contribution ID: 9

Type: **not specified**

## Constraints on light particles from supernovae

*Tuesday 8 October 2024 11:45 (30 minutes)*

**Presenter:** SERPICO, Pasquale Dario (LAPTh)

**Session Classification:** High energy astroparticle physics

Contribution ID: **10**

Type: **not specified**

## **News on gravitationally lensed supernovae**

*Friday 11 October 2024 12:00 (30 minutes)*

**Presenter:** Prof. PÉREZ FOURNON, Ismael (IAC/ULL)

**Session Classification:** Galaxies

Contribution ID: 11

Type: **not specified**

## Indirect searches of dark matter with cosmic rays

*Tuesday 8 October 2024 14:30 (30 minutes)*

**Presenter:** MOLERO GONZALEZ, Miguel (IAC)

**Session Classification:** High energy astroparticle physics

Contribution ID: 14

Type: **not specified**

## **Pulsar timing array sensitivity to anisotropies in the gravitational wave background**

*Thursday 10 October 2024 11:45 (30 minutes)*

**Presenter:** DOMCKE, Valerie (CERN)

**Session Classification:** Cosmology

Contribution ID: 15

Type: **not specified**

## The Early Universe at Pulsar Timing Arrays

*Thursday 10 October 2024 11:15 (30 minutes)*

**Presenter:** ROMPINEVE, Fabrizio (IFAE Barcelona)

**Session Classification:** Cosmology

Contribution ID: **16**

Type: **not specified**

## **LSS at the IAC**

*Thursday 10 October 2024 09:15 (30 minutes)*

**Presenter:** Prof. KITAURA JOYANES, Francisco-Shu (IAC/ULL)

**Session Classification:** Cosmology

Contribution ID: 17

Type: **not specified**

## **Intro to astroparticle research at CERN and neutrino masses after DESI**

*Thursday 10 October 2024 09:45 (30 minutes)*

**Presenter:** ESCUDERO, Miguel (CERN)

**Session Classification:** Cosmology

Contribution ID: **18**

Type: **not specified**

## **CMB meets LSS**

*Thursday 10 October 2024 10:15 (30 minutes)*

**Presenter:** Dr HERNÁNDEZ-MONTEAGUDO, Carlos (IAC)

**Session Classification:** Cosmology



Contribution ID: **19**

Type: **not specified**

## **Science at the IAC for QUIJOTE & TMS**

*Wednesday 9 October 2024 09:15 (30 minutes)*

**Presenter:** ALBERTO RUBIÑO, Jose (IAC)

**Session Classification:** Cosmology

Contribution ID: 20

Type: **not specified**

## **Science at the IAC for GroundBird, STRIP & Litebird**

*Wednesday 9 October 2024 10:15 (30 minutes)*

**Presenter:** GENOVA SANTOS, Ricardo (IAC)

**Session Classification:** Cosmology

Contribution ID: 21

Type: **not specified**

## Looking for new physics with radio signatures

*Wednesday 9 October 2024 09:45 (30 minutes)*

**Presenter:** CAPUTO, Andrea (CERN)

**Session Classification:** Cosmology

Contribution ID: 22

Type: **not specified**

## **New Opportunities of Gravitational Wave from Axion Experiments**

*Wednesday 9 October 2024 11:45 (30 minutes)*

**Presenter:** Dr MOOK, Sung (CERN)

**Session Classification:** Cosmology

Contribution ID: 23

Type: **not specified**

## **The DALI experiment: a haloscope at the IAC**

*Wednesday 9 October 2024 11:15 (30 minutes)*

**Presenter:** Dr DE MIGUEL HERNÁNDEZ, Javier (IAC)

**Session Classification:** Cosmology

Contribution ID: 24

Type: **not specified**

## **Dark matter inferences from the stellar kinematics of Local Group dwarf galaxies**

*Thursday 10 October 2024 14:00 (30 minutes)*

**Presenter:** Dr BATTAGLIA, Giuseppina (IAC)

**Session Classification:** Galaxies

Contribution ID: 26

Type: **not specified**

## Studying the dark matter with stellar streams

*Thursday 10 October 2024 15:00 (30 minutes)*

**Presenter:** Dr THOMAS, Guillaume (IAC)

**Session Classification:** Galaxies

Contribution ID: 27

Type: **not specified**

## **DM in the Local Group: the kinematic analyses of dwarf spheroidals**

*Thursday 10 October 2024 15:45 (15 minutes)*

**Presenter:** Mr ARROYO, Jose María (IAC)

**Session Classification:** Galaxies



Contribution ID: 28

Type: **not specified**

## **The properties of DM with the local low-surface brightness universe**

*Friday 11 October 2024 09:15 (30 minutes)*

**Presenter:** Prof. TRUJILLO, Ignacio (IAC)

**Session Classification:** Galaxies

Contribution ID: 29

Type: **not specified**

## Overview on galactic probes of DM properties

*Friday 11 October 2024 09:45 (30 minutes)*

**Presenter:** BLUM, Kfir (WIS)

**Session Classification:** Galaxies

Contribution ID: **30**

Type: **not specified**

## **Stellar cores in dwarf galaxies: implications for DM**

*Friday 11 October 2024 10:15 (30 minutes)*

**Presenter:** Prof. SÁNCHEZ-ALMEIDA, Jorge (IAC)

**Session Classification:** Galaxies

Contribution ID: 31

Type: **not specified**

# Hydrodynamical simulations of dwarf galaxies and implications for DM

*Friday 11 October 2024 11:15 (30 minutes)*

**Presenter:** Prof. DI CINTIO, Arianna (IAC/ULL)

**Session Classification:** Galaxies

Contribution ID: 33

Type: **not specified**

## Quasar Millilensing and cold DM (TNG50) subhaloes

*Friday 11 October 2024 14:30 (30 minutes)*

**Presenter:** Prof. MEDIAVILLA, Evencio (IAC/ULL)

**Session Classification:** Galaxies

Contribution ID: 34

Type: **not specified**

## **Gravitational lensing time-delays and implications for DM in galaxies**

*Friday 11 October 2024 14:00 (30 minutes)*

**Presenter:** Mr TEODORI, Luca (WIS)

**Session Classification:** Galaxies

Contribution ID: 35

Type: **not specified**

## **Probing the Mass Contents of Omega Centauri with kinematic data**

*Thursday 10 October 2024 15:30 (15 minutes)*

**Presenter:** Mr BAÑARES-HERNÁNDEZ, Andrés (IAC)

**Session Classification:** Galaxies

Contribution ID: 36

Type: **not specified**

## **Aspects of ultralight dark matter for astrophysical observations**

*Thursday 10 October 2024 14:30 (30 minutes)*

**Presenter:** BLAS, Diego (UAB/IFAE)

**Session Classification:** Galaxies



Contribution ID: 37

Type: **not specified**

## Gender in Physics

*Wednesday 9 October 2024 14:30 (30 minutes)*

**Presenter:** NIR, Yosef (WIS)

**Session Classification:** Management

Contribution ID: **38**

Type: **not specified**

## **New physics explanations of axion birefringence**

*Wednesday 9 October 2024 12:15 (15 minutes)*

**Presenter:** GASPAROTTO, Silvia (IFAE)

**Session Classification:** Cosmology

Contribution ID: 39

Type: **not specified**

## Looking for axions in exotic, highly magnetised white dwarf stars

*Tuesday 8 October 2024 12:15 (15 minutes)*

**Presenter:** ZATINI, Ruben (IAC)

**Session Classification:** High energy astroparticle physics

Contribution ID: 40

Type: **not specified**

# **From Evaporation to Eternity: How Memory Burden Alters Primordial Black Hole Constraints**

*Friday 11 October 2024 15:00 (30 minutes)*

**Presenter:** VALBUENA-BERMUDEZ, Juan Sebastian

**Session Classification:** Galaxies

Contribution ID: 41

Type: **not specified**

## **Towards a precise determination of primordial non gaussianities with LSS surveys**

*Tuesday 8 October 2024 15:00 (30 minutes)*

**Presenter:** BERMEJO, Jose (IAC)

**Session Classification:** High energy astroparticle physics

Contribution ID: 42

Type: **not specified**

## **Where Globular cluster ends meet: Identifying the Tidal Disruption of Globular Clusters**

*Friday 11 October 2024 11:45 (15 minutes)*

**Presenter:** HAVILIO, Inbar (WIS)

**Session Classification:** Galaxies