

# Working Group Meeting of COST Action COSMIC WISPers (CA21106)



## Report of Contributions

Contribution ID: 1

Type: **not specified**

# Welcome

*Thursday 1 February 2024 09:30 (20 minutes)*

**Session Classification:** Highlights from WG groups

Contribution ID: 2

Type: **not specified**

## The QCD axion sum rule

*Thursday 1 February 2024 09:50 (30 minutes)*

**Presenter:** DA LUZ PEREIRA RAMOS, Maria Pestana

**Session Classification:** Highlights from WG groups

Contribution ID: 3

Type: **not specified**

## Axion post-inflationary scenario

*Thursday 1 February 2024 10:20 (30 minutes)*

**Presenter:** BUSCHMANN, Malte

**Session Classification:** Highlights from WG groups

Contribution ID: 4

Type: **not specified**

## Supernova simulations confront SN 1987A neutrinos

*Thursday 1 February 2024 11:20 (30 minutes)*

**Presenter:** FIORILLO, Damiano

**Session Classification:** Highlights from WG groups

Contribution ID: 5

Type: **not specified**

## **Search for vector DM in microwave cavities with Rydberg atoms**

*Thursday 1 February 2024 11:50 (30 minutes)*

**Presenter:** GUE, Jordan

**Session Classification:** Highlights from WG groups

Contribution ID: 6

Type: **not specified**

## Small Kinetic Mixing in String Theory

*Thursday 1 February 2024 14:00 (25 minutes)*

**Presenter:** KUESPERT, Ruben

**Session Classification:** WG1

Contribution ID: 7

Type: **not specified**

## Axion landscapes in string theory

*Thursday 1 February 2024 14:25 (25 minutes)*

**Presenter:** JANSSEN, Oliver

**Session Classification:** WG1



Contribution ID: 8

Type: **not specified**

# **Axions, the path to the hot dark matter bound**

*Thursday 1 February 2024 14:50 (25 minutes)*

**Presenter:** PIAZZA, Gioacchino

**Session Classification:** WG1

Contribution ID: 9

Type: **not specified**

## Discussion on WG 1 Activities

*Thursday 1 February 2024 15:45 (1 hour)*

**Session Classification:** WG1

Contribution ID: 10

Type: **not specified**

## **Effects of PQ symmetry breaking on the axion cosmological production through misalignment**

*Thursday 1 February 2024 14:00 (25 minutes)*

**Presenter:** SØRENSEN, Philip

**Session Classification:** WG2+3

Contribution ID: 11

Type: **not specified**

# Early vs late string networks from a minimal QCD Axion

*Thursday 1 February 2024 14:25 (25 minutes)*

**Presenter:** GORGHETTO, Marco

**Session Classification:** WG2+3

Contribution ID: 12

Type: **not specified**

## **Gravitational waves from BSM sources and pulsar timing arrays**

*Thursday 1 February 2024 14:50 (25 minutes)*

**Presenter:** GOUTTENOIRE, Yann

**Session Classification:** WG2+3

Contribution ID: 13

Type: **not specified**

## Axions and neutron stars

*Thursday 1 February 2024 15:45 (25 minutes)*

**Presenter:** MCDONALD, Jamie

**Session Classification:** WG2+3

Contribution ID: **14**

Type: **not specified**

## ALP Anarchy

*Thursday 1 February 2024 16:10 (25 minutes)*

**Presenter:** CHADHA-DAY, Francesca

**Session Classification:** WG2+3

Contribution ID: 15

Type: **not specified**

## Getting the most on supernova axions

*Thursday 1 February 2024 16:35 (25 minutes)*

**Presenter:** LELLA, Alessandro

**Session Classification:** WG2+3



Contribution ID: **16**

Type: **not specified**

## **Discussion on WG2+3 Activities**

*Thursday 1 February 2024 17:00 (1 hour)*

**Session Classification:** WG2+3

Contribution ID: 17

Type: **not specified**

## DESY

*Friday 2 February 2024 10:00 (30 minutes)*

**Presenter:** LINDNER, Axel (ALPS (ALPS \_ Any Light Particle Search))

**Session Classification:** WISP searches ad international laboratories

Contribution ID: **18**

Type: **not specified**

**LNF**

*Friday 2 February 2024 10:30 (30 minutes)*

**Presenter:** GATTI, Claudio (INFN)

**Session Classification:** WISP searches ad international laboratories

Contribution ID: **19**

Type: **not specified**

## **WG1 report**

*Friday 2 February 2024 11:30 (15 minutes)*

**Presenter:** RENNER, Sophie

**Session Classification:** Highlights from WG groups

Contribution ID: **20**

Type: **not specified**

## **WG2 report**

*Friday 2 February 2024 11:45 (15 minutes)*

**Presenter:** VITAGLIANO, Edoardo

**Session Classification:** Highlights from WG groups

Contribution ID: 21

Type: **not specified**

## WG3 Report

*Friday 2 February 2024 12:00 (15 minutes)*

**Presenter:** GIANNOTTI, Maurizio

**Session Classification:** Highlights from WG groups

Contribution ID: 22

Type: **not specified**

## WG4 Report

*Friday 2 February 2024 12:15 (15 minutes)*

**Presenter:** GATTI, Claudio

**Session Classification:** Highlights from WG groups

Contribution ID: 23

Type: **not specified**

## SQUIDs and their applications

*Friday 2 February 2024 15:00 (25 minutes)*

**Presenter:** MUECK, Michael

**Session Classification:** Technology Forum on Quantum Technologies for WISPs



Contribution ID: 24

Type: **not specified**

## Development of superconducting circuits in Italy

*Friday 2 February 2024 15:25 (25 minutes)*

**Presenter:** MANTEGAZZINI, Federica

**Session Classification:** Technology Forum on Quantum Technologies for WISPs

Contribution ID: 25

Type: **not specified**

## Quantum Sensing and the Dark Quantum project

*Friday 2 February 2024 15:50 (25 minutes)*

**Presenter:** KONTOS, Takis

**Session Classification:** Technology Forum on Quantum Technologies for WISPs

Contribution ID: 26

Type: **not specified**

## Alpha plasma experiment

*Thursday 1 February 2024 14:00 (25 minutes)*

**Presenter:** CARENZA, Pierluca

**Session Classification:** WG4

Contribution ID: 27

Type: **not specified**

# **Intensity interferometry for ultralight bosonic dark matter detection**

*Thursday 1 February 2024 14:25 (25 minutes)*

**Presenter:** GAVILAN, Daniel

**Session Classification:** WG4

Contribution ID: 28

Type: **not specified**

## Nuclear Reactors and Haloscopes

*Thursday 1 February 2024 14:50 (25 minutes)*

**Presenter:** ARIAS-ARAGON, Fernando

**Session Classification:** WG4

Contribution ID: 29

Type: **not specified**

## the IAXO experiment

*Thursday 1 February 2024 15:45 (25 minutes)*

**Presenter:** RUZ ARMENDARIZ, Jaime

**Session Classification:** WG4

Contribution ID: **30**

Type: **not specified**

## Recent results of QUAX@LNF

*Thursday 1 February 2024 16:10 (25 minutes)*

**Presenter:** RETTAROLI, Alessio

**Session Classification:** WG4

Contribution ID: **31**

Type: **not specified**

## **WG4 Discussion**

*Thursday 1 February 2024 16:35 (1 hour)*

**Session Classification:** WG4



Contribution ID: 32

Type: **not specified**

## News from Physics Beyond Collider

*Friday 2 February 2024 09:30 (30 minutes)*

**Presenter:** JEACKEL, Joerg

**Session Classification:** WISP searches ad international laboratories

Contribution ID: **33**

Type: **not specified**

## Registration

*Thursday 1 February 2024 09:00 (30 minutes)*