2nd General Meeting of COST Action COSMIC WISPers (CA21106)



Report of Contributions

2nd General Mee ... / Report of Contributions Welcome

Contribution ID: 1 Type: **not specified**

Welcome

Session Classification: Management Committee

Contribution ID: 2 Type: not specified

Status and Perspectives on Axion searches

Tuesday, 3 September 2024 09:20 (40 minutes)

Presenter: GIANNOTTI, Maurizio (Universidad de Zaragoza)

Session Classification: WG4 (Experiments)

Contribution ID: 3 Type: not specified

Axion string phenomenology

Wednesday, 4 September 2024 10:10 (40 minutes)

Presenter: LEEDOM, Jacob

Session Classification: WG1 (Theory and Model Building)

Contribution ID: 4 Type: **not specified**

Status and Perspectives on Axion searches

Brief Overview of axion searches.

Presenter: GIANNOTTI, Maurizio (Universidad de Zaragoza)

Session Classification: WG4 (Experiments)

Contribution ID: 5 Type: **not specified**

Detection Prospects of Gravitational Waves in Axion Cavity Experiments

Tuesday, 3 September 2024 11:40 (40 minutes)

Presenter: GARCIA CELY, Camilo

Session Classification: WG4 (Experiments)

Contribution ID: 6 Type: **not specified**

Report on WG4 Activities

Tuesday, 3 September 2024 14:30 (30 minutes)

Primary author: GATTI, Claudio (Istituto Nazionale di Fisica Nucleare)

Presenters: GATTI, Claudio (Istituto Nazionale di Fisica Nucleare); KARUZA, Marin (Istituto

Nazionale di Fisica Nucleare)

Session Classification: Round Table

2nd General Mee ... / Report of Contributions

Discussion

Contribution ID: 7 Type: **not specified**

Discussion

Tuesday, 3 September 2024 15:00 (30 minutes)

Session Classification: Round Table

Contribution ID: 8 Type: **not specified**

The CADEx Experiment: A new haloscope axion search in the 330-460 micro-eV mass range at the Canfranc Underground Laboratory (LSC)

Tuesday, 3 September 2024 15:30 (20 minutes)

Presenter: MIRALDA ESCUDÉ, Jordi

Session Classification: WG4 (Experiments)

Contribution ID: 9 Type: not specified

Axion Search go Deep underground

Tuesday, 3 September 2024 15:50 (20 minutes)

Presenter: TONI, Claudio (Istituto Nazionale di Fisica Nucleare)

Session Classification: WG4 (Experiments)

Contribution ID: 10 Type: not specified

Search for axion-like particles with hyperpolarized 129Xe nuclear magnetic resonance

Tuesday, 3 September 2024 16:30 (20 minutes)

Presenter: DOGAN, Arian

Session Classification: WG4 (Experiments)

Contribution ID: 11 Type: not specified

Search of axion wind with atomic sensors

Tuesday, 3 September 2024 16:10 (20 minutes)

Presenter: GAVILÁN, Daniel

Session Classification: WG4 (Experiments)

Contribution ID: 12 Type: not specified

Can the QCD axion feed a dark energy component?

Tuesday, 3 September 2024 15:30 (20 minutes)

Presenter: MUURSEPP, Kristjan

Session Classification: WG2 (Dark matter & Cosmology)

Contribution ID: 14 Type: not specified

Constraints on conformal ultralight dark matter couplings from the European Pulsar Timing Array

Tuesday, 3 September 2024 16:10 (20 minutes)

Presenter: SMARRA, Clemente

Session Classification: WG2 (Dark matter & Cosmology)

Contribution ID: 15 Type: not specified

Searching for Ultra Light Dark Matter soliton through GWs

Tuesday, 3 September 2024 16:30 (20 minutes)

Presenter: GASPAROTTO, Silvia

Session Classification: WG2 (Dark matter & Cosmology)

Contribution ID: 16 Type: not specified

Axion string phenomenology

Presenter: LEEDOM, Jacob

Session Classification: WG1 (Theory and Model Building)

Contribution ID: 17 Type: not specified

Status and prospects of the search for hadronic axions in the 1-8 GHz frequency range at IBS-CAPP in South Korea

Tuesday, 3 September 2024 10:00 (40 minutes)

Presenter: SEMERTZIDIS, Yannis Kyriakos (Center for Axion and Precision Physics, IBS)

Session Classification: WG4 (Experiments)

Contribution ID: 18 Type: not specified

Dark photon phenomenology

Friday, 6 September 2024 10:20 (40 minutes)

Presenter: RAIDAL, Martti

Session Classification: WG1 (Theory and Model Building)

Contribution ID: 19 Type: not specified

Cosmological Scalars: theory and tests

Wednesday, 4 September 2024 12:00 (40 minutes)

Presenter: DAVIS, Anne

Session Classification: WG1 (Theory and Model Building)

Contribution ID: 20 Type: not specified

Generalized axion electrodynamics and the Witten effect

Wednesday, 4 September 2024 15:30 (20 minutes)

Presenter: SOKOLOV, Anton

Session Classification: WG1 (Theory and Model Building)

Contribution ID: 21 Type: not specified

On (de Sitter) vacua in heterotic string theories

Wednesday, 4 September 2024 15:50 (20 minutes)

Presenter: RIGHI, Nicole

Session Classification: WG1 (Theory and Model Building)

Contribution ID: 22 Type: not specified

Back to the origins of brane-antibrane inflation

Wednesday, 4 September 2024 16:10 (20 minutes)

Presenter: VILLA, Gonzalo

Session Classification: WG1 (Theory and Model Building)

Contribution ID: 23 Type: not specified

Report on WG1 Activities

Wednesday, 4 September 2024 14:30 (30 minutes)

Presenter: CICOLI, Michele (Istituto Nazionale di Fisica Nucleare)

Session Classification: Round Table

Discussion

Contribution ID: 24 Type: not specified

Discussion

Wednesday, 4 September 2024 15:00 (30 minutes)

Session Classification: Round Table

Contribution ID: 25

Type: not specified

Natural coordinates and consistency conditions for two-field models of inflation in fundamental theories of gravity and matter

Presenter: Prof. LAZAROIU, Calin (National Institute of Physics and Nuclear Engineering, Bucharest)

Session Classification: WG2 (Dark matter & Cosmology)

Contribution ID: 26 Type: not specified

Inflationary Schwinger dark matter production

Presenter: Dr BASTERO-GIL, Mar (Granada Univ.)

Session Classification: WG2 (Dark matter & Cosmology)

Contribution ID: 27 Type: not specified

Dark photon dark matter from inflation

Presenter: UBALDI, Lorenzo

Session Classification: WG2 (Dark matter & Cosmology)

Contribution ID: 28 Type: not specified

Detection of scalar and vector particles from the Sun

Wednesday, 4 September 2024 15:30 (20 minutes)

Presenter: O'SHEA, Tomas

Session Classification: WG3 (Astrophysics)

Contribution ID: 29 Type: not specified

WISPs, WIMPs, and Gammas: Searches for New Physics with the Fermi Large Area Telescope

Wednesday, 4 September 2024 15:50 (20 minutes)

Presenter: CRNOGORCEVIC, Milena

Session Classification: WG3 (Astrophysics)

Contribution ID: 30 Type: not specified

Anomaly Induced Supernovae Cooling: New Contribution from Axions

Wednesday, 4 September 2024 16:10 (20 minutes)

Presenter: VANVLASSELAER, Miguel

Session Classification: WG3 (Astrophysics)

Contribution ID: 31

Type: not specified

Natural coordinates and consistency conditions for two-field models of inflation in fundamental theories of gravity and matter

Presenter: LAZAROIU, Clain (UNED-Madrid and IFIN-HH Bucharest)

Session Classification: WG2 (Dark matter & Cosmology)

Contribution ID: 32 Type: not specified

Inflationary Schwinger dark matter production

Presenter: BASTERO-GIL, Mar (Granada Univ.)

Session Classification: WG2 (Dark matter & Cosmology)

Contribution ID: 33 Type: not specified

Dark photon dark matter from inflation

Presenter: UBALDI, Lorenzo

Session Classification: WG2 (Dark matter & Cosmology)

Axion Interferometers

Contribution ID: 34 Type: not specified

Axion Interferometers

Presenter: EJILLI, Aldo

Session Classification: WG4 (Experiments)

Contribution ID: 35 Type: not specified

Thermal Axions: What's Next?

Thursday, 5 September 2024 09:30 (40 minutes)

Thermal Axions: What's Next?

Presenter: D'ERAMO, Francesco (Istituto Nazionale di Fisica Nucleare)

Session Classification: WG2 (Dark matter & Cosmology)

Contribution ID: 36 Type: not specified

Axion dark energy

Thursday, 5 September 2024 10:10 (40 minutes)

Presenter: PEDRO, Francisco

Session Classification: WG2 (Dark matter & Cosmology)

Contribution ID: 37 Type: not specified

Hunting Dark Matter Lines in the Infrared Background with the James Webb Space Telescope

Thursday, 5 September 2024 11:20 (40 minutes)

Presenter: PINETTI, Elena (Fermilab)

Session Classification: WG2 (Dark matter & Cosmology)

Contribution ID: 38 Type: not specified

Axion stars from strings

Thursday, 5 September 2024 12:00 (40 minutes)

Presenter: HARDY, Edward

Session Classification: WG2 (Dark matter & Cosmology)

Contribution ID: 39 Type: not specified

Report on WG2 Activities

Thursday, 5 September 2024 14:30 (30 minutes)

Presenters: VITAGLIANO, Edoardo (Istituto Nazionale di Fisica Nucleare); GORGHETTO, Marco

(Weizmann Institute)

Session Classification: Round Table

Discussion

Contribution ID: 40 Type: not specified

Discussion

Thursday, 5 September 2024 15:00 (30 minutes)

Session Classification: Round Table

Contribution ID: 42

Type: not specified

High energy resolution x-ray detectors for IAXO: advantages in pre- and post-discovery phases

Presenter: GASTALDO, Loredana (Kirchhoff Institute for Physics, Heidelberg University)

Session Classification: WG3 (Astrophysics)

Contribution ID: 43 Type: not specified

Probing the Dark Sector with NA64 and POKER at CERN SPS

Presenter: MARSICANO, Luca (Istituto Nazionale di Fisica Nucleare)

Session Classification: WG3 (Astrophysics)

Contribution ID: 44 Type: **not specified**

Transition edge sensors for axion searches in ALPS II and beyond

Friday, 6 September 2024 09:00 (40 minutes)

Presenter: MEYER, Manuel

Session Classification: WG3 (Astrophysics)

Contribution ID: 45 Type: not specified

Axion conversion in the solar magnetic field

Friday, 6 September 2024 09:40 (40 minutes)

Presenter: TODARELLO, Elisa

Session Classification: WG3 (Astrophysics)

Contribution ID: 46 Type: not specified

Direct and indirect detection of the QCD axion

Wednesday, 4 September 2024 11:20 (40 minutes)

Presenter: VISINELLI, Luca (Shanghai Jiao Tong University)

Session Classification: WG3 (Astrophysics)

Contribution ID: 47 Type: **not specified**

Ultralight Bosons and Black Holes

Friday, 6 September 2024 11:20 (40 minutes)

Presenter: BOSKOVIC, Mateja

Session Classification: WG3 (Astrophysics)

Contribution ID: 48 Type: not specified

Report on WG3 activities

Friday, 6 September 2024 12:00 (20 minutes)

Presenter: GIANNOTTI, Maurizio

Session Classification: Round Table

Discussion

Contribution ID: 49 Type: not specified

Discussion

Friday, 6 September 2024 12:20 (20 minutes)

Session Classification: Round Table

Contribution ID: 50 Type: not specified

Conclusions

Presenter: MIRIZZI, Alessandro (Istituto Nazionale di Fisica Nucleare)

Session Classification: Summary Session

Contribution ID: 51 Type: not specified

Conclusions

Friday, 6 September 2024 13:10 (20 minutes)

Presenter: MIRIZZI, Alessandro (Istituto Nazionale di Fisica Nucleare)

Session Classification: Conclusions

Contribution ID: 52 Type: not specified

Public Talk (In Turkish) - Duyamadığımız Kozmik Fısıltılar: Evrenin Karanlık Yüzü

Thursday, 5 September 2024 18:00 (1 hour)

Primary author: ÇETIN, Serkant Ali

Presenter: ÇETIN, Serkant Ali

Session Classification: WG5 (Dissemination and Outreach)

Contribution ID: 53 Type: not specified

Polarimetry Techniques for Vacuum Magnetic Birefringence

Tuesday, 3 September 2024 17:10 (20 minutes)

Presenter: ROBERTS, Laura

Session Classification: WG4 (Experiments)

Contribution ID: 54 Type: not specified

Status of the RADES-MPP activities in haloscope experiments

Tuesday, 3 September 2024 17:30 (20 minutes)

Presenter: BARCELÓ, Jose Maria García

Session Classification: WG4 (Experiments)

Contribution ID: 55 Type: **not specified**

Search for WISPs with gravitational-wave detectors

Presenter: PIERINI, Lorenzo (INFN Roma)

Session Classification: WG3 (Astrophysics)

WG 1 report

Contribution ID: 56 Type: not specified

WG 1 report

Friday, 6 September 2024 15:20 (20 minutes)

Presenter: CICOLI, Michele (Istituto Nazionale di Fisica Nucleare)

Session Classification: Management Committee Meeting

2nd General Mee ... / Report of Contributions

WG2 report

Contribution ID: 57 Type: not specified

WG2 report

Friday, 6 September 2024 15:40 (20 minutes)

Presenter: VITAGLIANO, Edoardo

Session Classification: Management Committee Meeting

WG3 report

Contribution ID: 58 Type: not specified

WG3 report

Friday, 6 September 2024 16:20 (20 minutes)

Presenter: GIANNOTTI, Maurizio (Universidad de Zaragoza)

Session Classification: Management Committee Meeting

WG 4 report

Contribution ID: 59 Type: not specified

WG 4 report

Friday, 6 September 2024 16:00 (20 minutes)

Presenter: GATTI, Claudio (Istituto Nazionale di Fisica Nucleare)

Session Classification: Management Committee Meeting

WG5 report

Contribution ID: 60 Type: not specified

WG5 report

Friday, 6 September 2024 16:40 (20 minutes)

Presenter: GASTALDO, Loredana (Kirchhoff Institute for Physics, Heidelberg University)

Session Classification: Management Committee Meeting

Contribution ID: 61 Type: not specified

ECI Committee Report

Friday, 6 September 2024 17:35 (15 minutes)

Presenter: DE GIORGI, Arturo (UAM/IFT)

Session Classification: Management Committee Meeting

Contribution ID: 62 Type: not specified

CA21106 Introduction

Friday, 6 September 2024 15:00 (20 minutes)

Presenter: MIRIZZI, Alessandro (Istituto Nazionale di Fisica Nucleare)

Session Classification: Management Committee Meeting

Contribution ID: 63 Type: not specified

Grant Awarding Coordinator report

Friday, 6 September 2024 17:20 (15 minutes)

Presenter: KOZHUHAROV, Venelin

Session Classification: Management Committee Meeting

Contribution ID: 64 Type: not specified

Report from Gender and Diversity Advisor

Friday, 6 September 2024 17:50 (20 minutes)

Presenter: Prof. SUNAR CERCI, Deniz

Session Classification: Management Committee Meeting

Contribution ID: 65 Type: not specified

Draft of W&B Plan 2024

Friday, 6 September 2024 18:10 (1 hour)

Presenter: MIRIZZI, Alessandro (Istituto Nazionale di Fisica Nucleare)

Session Classification: Management Committee Meeting

Contribution ID: 66 Type: not specified

Report on WG5 activities and discussion

Thursday, 5 September 2024 17:00 (45 minutes)

Presenter: GASTALDO, Loredana

Session Classification: WG5 (Dissemination and Outreach)

Contribution ID: 67 Type: not specified

Spectator-Verse Echoes from String Theory

Wednesday, 4 September 2024 09:30 (40 minutes)

Presenter: WESTPHAL, Alexander

Session Classification: WG1 (Theory and Model Building)

Contribution ID: 68 Type: not specified

Axion search possibilities with storage rings

Presenter: HACIOMEROGLU, Selcuk

Session Classification: WG4 (Experiments)

Contribution ID: 69 Type: not specified

Utilizing daily modulations in axion dark matter searches

Presenter: ÖZBOZDUMAN, Kaan (CERN)

Session Classification: WG4 (Experiments)

Contribution ID: **70** Type: **not specified**

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Session Classification: WG4 (Experiments)

Contribution ID: 71 Type: not specified

Spectrum of global string networks and the axion dark matter mass

Presenter: REDONDO, Javier (Universidad de Zaragoza)

Session Classification: WG2 (Dark matter & Cosmology)

Contribution ID: 72 Type: not specified

Spectrum of global string networks and the axion dark matter mass

Tuesday, 3 September 2024 17:10 (20 minutes)

Primary author: KALTSCHMIDT, Mathieu (CAPA, Universidad de Zaragoza)

Presenter: KALTSCHMIDT, Mathieu (CAPA, Universidad de Zaragoza)

Session Classification: WG2 (Dark matter & Cosmology)

TBA

Contribution ID: 73 Type: not specified

TBA

Presenter: LENOCI, Alessandro

Session Classification: WG2 (Dark matter & Cosmology)

TBA

Contribution ID: 74 Type: **not specified**

TBA

Presenter: LENOCI, Alessandro

Session Classification: WG3 (Astrophysics)

TBA

Contribution ID: **75** Type: **not specified**

TBA

Presenter: GHOSH, Oindrila

Session Classification: WG3 (Astrophysics)

Contribution ID: **76**Type: **not specified**

Self-gravity of boson clouds from superradiant clouds

Wednesday, 4 September 2024 17:00 (20 minutes)

Presenter: LENOCI, Alessandro

Session Classification: WG3 (Astrophysics)

Contribution ID: 77 Type: **not specified**

Axions from Very-high Energy Phenomena

Wednesday, 4 September 2024 17:20 (20 minutes)

Presenter: GHOSH, Oindrila

Session Classification: WG3 (Astrophysics)

Contribution ID: 78 Type: not specified

Natural Metric-Affine Inflation

Wednesday, 4 September 2024 17:00 (20 minutes)

Presenter: Dr RACIOPPI, Antonio

Session Classification: WG1 (Theory and Model Building)

Contribution ID: 79 Type: not specified

Loop Blow-Up Inflation: a novel way to inflate with the Kaehler moduli

Wednesday, 4 September 2024 17:20 (20 minutes)

Presenter: BRUNELLI, Luca

Session Classification: WG1 (Theory and Model Building)

Contribution ID: 80 Type: not specified

A Fuzzy Axiverse from String Theory

Wednesday, 4 September 2024 17:40 (20 minutes)

Presenter: SCHACHNER, Andreas

Session Classification: WG1 (Theory and Model Building)

Contribution ID: 81 Type: not specified

Axion-like-particle dark matter beyond the standard paradigm

Thursday, 5 September 2024 15:30 (20 minutes)

Presenter: ERONCEL, Cem

Session Classification: WG1 (Theory and Model Building)

Contribution ID: 82 Type: not specified

Application of polarimeter for detection of scalar (pseudoscalar) dark matter

Presenter: ROKN, Qazal

Session Classification: WG4 (Experiments)

Contribution ID: 83 Type: not specified

Strings In and Out of Equilibrium & Dark Radiation

Thursday, 5 September 2024 15:50 (20 minutes)

Presenter: MAHARANA, Anshuman

Session Classification: WG1 (Theory and Model Building)

Contribution ID: 84 Type: not specified

Geometric Z' Boson: Implications for Dark Matter and Black Holes

Thursday, 5 September 2024 16:10 (20 minutes)

Presenter: PULICE, Beyhan

Session Classification: WG1 (Theory and Model Building)

Contribution ID: 85 Type: not specified

Axion searches with magnetometers

Thursday, 5 September 2024 15:30 (20 minutes)

Presenter: AYBAS, Deniz

Session Classification: WG4 (Experiments)

Contribution ID: 86 Type: not specified

Axion search possibilities with storage rings

Thursday, 5 September 2024 15:50 (20 minutes)

Presenter: HACIOMEROGLU, Selcuk

Session Classification: WG4 (Experiments)

Contribution ID: 87 Type: not specified

Utilizing daily modulations in axion dark matter searches

Thursday, 5 September 2024 16:10 (20 minutes)

Presenter: ÖZBOZDUMAN, Kaan (CERN)

Session Classification: WG4 (Experiments)

Contribution ID: 88 Type: not specified

Dark Matter Signatures

Tuesday, 3 September 2024 11:00 (40 minutes)

Presenter: ZIOUTAS, Konstantin (University of Patras, PATRAS GREECE)

Session Classification: WG4 (Experiments)

Contribution ID: 89 Type: not specified

Ultralight dark matter detection with gravitational-wave interferometers

Tuesday, 3 September 2024 12:20 (40 minutes)

Co-author: MILLER, Andrew (Nikhef / Utrecht University)

Presenters: EJILLI, Aldo; MILLER, Andrew (Nikhef / Utrecht University)

Session Classification: WG4 (Experiments)

Contribution ID: 90 Type: not specified

The capabilities of the Theseus space mission for probing dark matter

Wednesday, 4 September 2024 17:40 (20 minutes)

Presenter: HAMOLLI, Lindita

Session Classification: WG3 (Astrophysics)

Contribution ID: 92 Type: not specified

Axion-like particle constraints from preSN in future experiments

Tuesday, 3 September 2024 15:50 (20 minutes)

Presenter: GIACCHINO, Federica

Session Classification: WG2 (Dark matter & Cosmology)

Contribution ID: 93 Type: not specified

Public Talk (in Turkish)

3 Eylül 2024, Salı günü saat 19:00'da başlayacak olan ve CosmicWISPers Yönetim Kurulu Türkiye temsilcisi ve İSÜ Temel Bilimler Bölüm Başkanı Prof. Dr. Serkant Ali Çetin'in "Duyamadığımız Kozmik Fısıltılar: Evrenin Karanlık Yüzü" başlıklı sunumunun yer alacağı etkinlik herkese açıktır ve katılım ücretsizdir.

Etkinlik kayıt sayfası için: https://indico.cern.ch/e/KozmikFisiltilar

Primary author: ÇETIN, Serkant Ali

Presenter: ÇETIN, Serkant Ali

Contribution ID: 94 Type: not specified

Axion minicluster streams in the Solar neighbourhood

Tuesday, 3 September 2024 17:30 (20 minutes)

Primary author: PIEROBON, Giovanni

Presenter: PIEROBON, Giovanni

Session Classification: WG2 (Dark matter & Cosmology)