Working Group Meeting of COST Action COSMIC WISPers (CA21106)

Report of Contributions

Axion Strings

Contribution ID: 1

Type: not specified

Axion Strings

Thursday 13 February 2025 11:30 (45 minutes)

Ref: https://inspirehep.net/literature/2842154

Author: Prof. HINDMARSH, Mark (University of Helsinki, University of Sussex)
Presenter: Prof. HINDMARSH, Mark (University of Helsinki, University of Sussex)
Session Classification: Talks

General WISP

Contribution ID: 2

Type: not specified

General WISP

Thursday 13 February 2025 12:15 (45 minutes)

Ref: https://inspirehep.net/literature/2176766

Author: Dr VASKONEN, Ville

Presenter: Dr VASKONEN, Ville

Session Classification: Talks

Astrophysical signatures of accre ...

Contribution ID: 3

Type: not specified

Astrophysical signatures of accreting axion stars

Thursday 13 February 2025 14:30 (45 minutes)

Author: SIGL, Guenter Presenter: SIGL, Guenter Session Classification: Talks

High-frequency gravitational wa ...

Contribution ID: 4

Type: not specified

High-frequency gravitational waves shining in photons in Astrophysical magnetic fields

Thursday 13 February 2025 15:15 (45 minutes)

High-frequency gravitational waves (f\gtrsimf\[MHz] are a smoking gun for the existence of exotic physics. In particular, GW backgrounds lying in the high-frequency would allow one to probe inflation, first-order phase transitions, topological defects and primordial black holes. The lack of current and future gravitational wave experiments sensitive at those frequencies leads to the need of employing different indirect techniques. Notably, one of the most promising one is constituted by graviton-photon conversions in magnetic fields. In this talk, I will discuss possible signature of gravitational wave conversions within astrophysical magnetic fields, focusing on the case Galactic B-fields. In this regard, I will illustrate how graviton-to-photon conversions may lead to unexpected imprints in gamma-ray observations in the range of frequencies f\sim10^{9}-10^{26}\,\Hz. Hence, the absence of any significant evidence for a diffuse photon flux induced by gravitationalwave conversions places stringent constraints on the gravitational-wave strain h_c

Author: LELLA, Alessandro Presenter: LELLA, Alessandro Session Classification: Talks

NA62: new results

Contribution ID: 5

Type: not specified

NA62: new results

Thursday 13 February 2025 16:30 (45 minutes)

Author: DOBRICH, Babette (Max Planck Society (DE))

Presenter: DOBRICH, Babette (Max Planck Society (DE))

Session Classification: Talks

GravNet - A global network for t \cdots

Contribution ID: 6

Type: not specified

GravNet - A global network for the search of high frequency gravitational waves

Thursday 13 February 2025 17:15 (45 minutes)

Author: GATTI, Claudio (INFN e Laboratori Nazionali di Frascati (IT))
Presenter: GATTI, Claudio (INFN e Laboratori Nazionali di Frascati (IT))
Session Classification: Talks

?

Contribution ID: 7

Type: not specified

?

Thursday 13 February 2025 09:30 (45 minutes)

Author: Prof. BAUER, MARTIN (IPPP Durham)Presenter: Prof. BAUER, MARTIN (IPPP Durham)Session Classification: Talks

Testing the far UV with an axion …

Contribution ID: 8

Type: not specified

Testing the far UV with an axion coupled to photons

Thursday 13 February 2025 10:15 (45 minutes)

After a brief introduction to axions in string theory, discussing their quality and the origin of their couplings, I will review recent progress in understanding their properties in different string theories from type IIB to heterotic string theories. I will show how the discovery of a light ALP — that is, above the QCD line —is incompatible with unification and heterotic string theory. Finally I will discuss our limitations and the questions that remain open.

Author: REIG LOPEZ, Mario (University of Oxford)Presenter: REIG LOPEZ, Mario (University of Oxford)Session Classification: Talks

WG 1 Report

Contribution ID: 9

Type: not specified

WG 1 Report

Friday 14 February 2025 11:30 (15 minutes)

WG 2 Report

Contribution ID: 10

Type: not specified

WG 2 Report

Friday 14 February 2025 11:45 (15 minutes)

WG 3 Report

Contribution ID: 11

Type: not specified

WG 3 Report

Friday 14 February 2025 12:00 (15 minutes)

WG 4 Report

Contribution ID: 12

Type: not specified

WG 4 Report

Friday 14 February 2025 12:15 (15 minutes)

WG 5 Report

Contribution ID: 13

Type: not specified

WG 5 Report

Friday 14 February 2025 12:30 (15 minutes)

New Opportunities for Cosmic W $\,\cdots\,$

Contribution ID: 14

Type: not specified

New Opportunities for Cosmic WISPers

Friday 14 February 2025 09:30 (45 minutes)

Author: RINGWALD, AndreasPresenter: RINGWALD, AndreasSession Classification: Highlights from CA 21106 Community

News about PBC

Contribution ID: 15

Type: not specified

News about PBC

Friday 14 February 2025 10:15 (45 minutes)

Author: JAECKEL, Joerg (ITP Heidelberg)

Presenter: JAECKEL, Joerg (ITP Heidelberg)

Session Classification: Highlights from CA 21106 Community