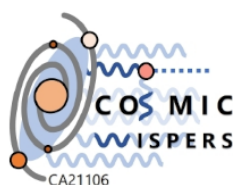


Session Program

9-12 Sept 2025



3rd General Meeting of COST Action COSMIC WISPERs (CA21106)

WG3 (Astrophysics)

Sofia, Bulgaria, Sofia University Main Building
Sofia Center, Tsar Osvoboditel Blvd 15, 1504 Sofia, Bulgaria

Wednesday 10 September

09:30

WG3 (Astrophysics)

Session |

Location: Sofia, Bulgaria, Sofia University Main Building, Sofia Center, Tsar Osvoboditel Blvd 15, 1504 Sofia, Bulgaria

09:30–10:10

X-ray observations and their applications to the physics of axions (or other WISPs)

Speaker

Jaime Ruz

10:10–10:50

Axion superradiance

Speaker

Francesca Chadha-Day

10:50

15:30

WG3 (Astrophysics)

Session |

Location: Sofia, Bulgaria, Sofia University Main Building, Sofia Center, Tsar Osvoboditel Blvd 15, 1504 Sofia, Bulgaria

15:30–15:50

X-ray Searches for Axions: The M82 and Betelgeuse Case Studies

Speaker

Francisco Candon

15:50–16:10

Probing axion-like particles with multimessenger observations of neutron star mergers

Speaker

Francesca Lecce

16:10–16:30

Axion production and conversion in astrophysical transients

Speaker

Ángel Gil Muyor

16:30

17:00

WG3 (Astrophysics)

Session |

Location: Sofia, Bulgaria, Sofia University Main Building, Sofia Center, Tsar Osvoboditel Blvd 15, 1504 Sofia, Bulgaria

17:00–17:20

Relaxing supernova constraints: how nucleophobic axions survive finite-density corrections.

Speaker

Vincenzo Fiorentino

17:20–17:40

Sensitivity of CTAO to axion-like particles from blazars: a machine learning approach

Speaker

Francesco Schiavone

17:40-18:00

Probing axion-like particles with very-high-energy gamma rays: Insights from MAGIC and LST-1

Speaker

Ivana Batkovic

18:00-18:20

Probing Ultralight Scalars through Compact Stars and Precision Tests of Gravity

Speaker

Tanmoy Poddar

18:20