

CAMK Annual Meeting 2024



Report of Contributions

Contribution ID: 12

Type: **not specified**

Hyper-Kamiokande

Wednesday, January 31, 2024 11:30 AM (10 minutes)

Presenter: ZIEMBICKI, Marcin (Nicolaus Copernicus Astronomical Centre, Polish Academy of Sciences)

Session Classification: Large Scale Projects

Contribution ID: 13

Type: **not specified**

LIGO-Virgo-KAGRA

Wednesday, January 31, 2024 11:40 AM (10 minutes)

Presenter: BEJGER, Michał (CAMK)

Session Classification: Large Scale Projects

Contribution ID: 14

Type: **not specified**

CUBES and WST

Wednesday, January 31, 2024 11:50 AM (10 minutes)

Presenter: SMILJANIC, Rodolfo (CAMK)

Session Classification: Large Scale Projects

Contribution ID: 15

Type: **not specified**

ARAUKARIA

Wednesday, January 31, 2024 12:00 PM (10 minutes)

Presenter: PIETRZYNSKI, Grzegorz (CAMK)

Session Classification: Large Scale Projects

Contribution ID: 16

Type: **not specified**

BRITE-PL

Wednesday, January 31, 2024 12:10 PM (10 minutes)

Presenter: HANDLER, Gerald

Session Classification: Large Scale Projects

Contribution ID: 17

Type: **not specified**

SOLARIS

Wednesday, January 31, 2024 12:20 PM (10 minutes)

Presenter: KONACKI, Maciej

Session Classification: Large Scale Projects

Contribution ID: **18**

Type: **not specified**

HESS/CTA

Wednesday, January 31, 2024 12:30 PM (10 minutes)

Presenter: MODERSKI, Rafał (Centrum Astronomiczne im. M. Kopernika PAN)

Session Classification: Large Scale Projects

Contribution ID: **19**

Type: **not specified**

New-ATHENA

Wednesday, January 31, 2024 12:40 PM (10 minutes)

Presenter: ROZANSKA, Agata (CAMK PAN)

Session Classification: Large Scale Projects

Contribution ID: 20

Type: **not specified**

The dormant BH binaries discovered by Gaia - how they could have been formed?

Wednesday, January 31, 2024 5:10 PM (5 minutes)

Presenter: KOTKO, Iwona (Nicolaus Copernicus Astronomical Centre of the Polish Academy of Sciences)

Session Classification: Stellar evolution and gravitational waves

Contribution ID: 21

Type: **not specified**

Annual Report

Wednesday, January 31, 2024 5:20 PM (5 minutes)

Presenter: FIGURA, Przemysław (Nicolaus Copernicus Astronomical Center)

Session Classification: Stellar evolution and gravitational waves

Contribution ID: 22

Type: **not specified**

Annual Report

Wednesday, January 31, 2024 5:25 PM (5 minutes)

Presenter: ROMAGNOLO, Amedeo

Session Classification: Stellar evolution and gravitational waves

Contribution ID: 23

Type: **not specified**

Annual Report

Wednesday, January 31, 2024 5:30 PM (5 minutes)

Presenter: SUYAMPRAKASAM, Sudhagar (Nicolaus Copernicus Astronomical Center)

Session Classification: Stellar evolution and gravitational waves

Contribution ID: 24

Type: **not specified**

Observational signatures of merging massive black holes

Wednesday, January 31, 2024 5:35 PM (5 minutes)

Presenter: BULIK, Tomasz (Obserwatorium Astronomiczne UW)

Session Classification: Stellar evolution and gravitational waves

Contribution ID: 25

Type: **not specified**

Annual Report

Wednesday, January 31, 2024 4:45 PM (5 minutes)

Presenter: GRACZYK, Dariusz (CAMK)

Session Classification: Eclipsing binaries

Contribution ID: 26

Type: **not specified**

Annual Report

Wednesday, January 31, 2024 4:50 PM (5 minutes)

Presenter: ROJAS GARCÍA, Gonzalo (Nicolaus Copernicus Astronomical Centre, PAN)

Session Classification: Eclipsing binaries

Contribution ID: 27

Type: **not specified**

Annual Report

Wednesday, January 31, 2024 4:55 PM (5 minutes)

Presenter: TAORMINA, Mónica (CAMK PAN)

Session Classification: Eclipsing binaries

Contribution ID: 28

Type: **not specified**

Parameters and chemical composition of binary systems components from spectroscopic analysis

Wednesday, January 31, 2024 5:00 PM (5 minutes)

Presenter: GAŁAN, Cezary (NCAC PAS, Warsaw, Poland)

Session Classification: Eclipsing binaries

Contribution ID: 34

Type: **not specified**

Formation and evolution of the Nuclear Star Cluster in the Milky Way and other spiral galaxies on the cosmological time scale.

Wednesday, January 31, 2024 2:00 PM (5 minutes)

Presenter: Prof. BERTSYK, Peter (Nicolaus Copernicus Astronomical Centre Polish Academy of Sciences, ul. Bartycka 18, 00-716 Warsaw, Poland; Main Astronomical Observatory, National Academy of Sciences of Ukraine, 27 Akademika Zabolotnoho St., 03143 Kyiv, Ukraine.)

Session Classification: Stellar Clusters

Contribution ID: 35

Type: **not specified**

Stellar Dynamics and Star Cluster Evolution

Wednesday, January 31, 2024 2:10 PM (5 minutes)

Presenter: GIERSZ, Mirek (Nicolaus Copernicus Astronomical Center, Polish Academy of Sciences)

Session Classification: Stellar Clusters

Contribution ID: 36

Type: **not specified**

Multiple stellar populations in globular star clusters

Wednesday, January 31, 2024 2:05 PM (5 minutes)

Presenter: HYPKI, Arkadiusz (Nicolaus Copernicus Astronomical Center Polish Academy of Sciences)

Session Classification: Stellar Clusters

Contribution ID: 37

Type: **not specified**

Synthetic populations of ultraluminous X-ray sources in globular clusters

Wednesday, January 31, 2024 2:15 PM (5 minutes)

Presenter: WIKTOROWICZ, Grzegorz

Session Classification: Stellar Clusters

Contribution ID: **38**

Type: **not specified**

DWD binaries in MOCCA GC simulations - comparisons to observations

Wednesday, January 31, 2024 2:20 PM (5 minutes)

Presenter: HELLSTRÖM, Lucas

Session Classification: Stellar Clusters

Contribution ID: 39

Type: **not specified**

Novae and related binaries

Wednesday, January 31, 2024 4:30 PM (5 minutes)

Presenter: MIKOŁAJEWSKA, Joanna

Session Classification: Symbiotic stars

Contribution ID: 40

Type: **not specified**

Growing Black Holes in Stellar Clusters

Wednesday, January 31, 2024 2:25 PM (5 minutes)

Presenter: ASKAR, Abbas (Nicolaus Copernicus Astronomical Center, Warsaw, Poland)

Session Classification: Stellar Clusters

Contribution ID: 41

Type: **not specified**

Compact Hierarchical Triples

Wednesday, January 31, 2024 3:45 PM (5 minutes)

Presenter: MOHARANA, Ayush (Nicolaus Copernicus Astronomical Center, Toruń)

Session Classification: Binary stars

Contribution ID: 42

Type: **not specified**

Detached Eclipsing Binaries as a PLATO Benchmark Stars

Wednesday, January 31, 2024 3:50 PM (5 minutes)

Presenter: Mr PAWAR, Ganesh N. (Nicolaus Copernicus Astronomical Center)

Session Classification: Binary stars

Contribution ID: 43

Type: **not specified**

Annual Report

Wednesday, January 31, 2024 3:40 PM (5 minutes)

Presenter: HEŁMINIAK, Krzysztof (CAMK Toruń)

Session Classification: Binary stars

Contribution ID: 44

Type: **not specified**

Annual Report

Wednesday, January 31, 2024 3:55 PM (5 minutes)

Presenter: PAWAR, Tilaksingh (NCAC, Torun)

Session Classification: Binary stars

Contribution ID: 45

Type: **not specified**

ULXs are beamed

Wednesday, January 31, 2024 3:00 PM (5 minutes)

Presenter: LASOTA-HIRSZOWICZ, Jean-Pierre (N. Copernicus Astronomical Center)

Session Classification: Accretion/ejection

Contribution ID: 46

Type: **not specified**

Disks, Planets and Auroras

Wednesday, January 31, 2024 2:35 PM (5 minutes)

Presenter: ČEMELJIĆ, Miljenko (CAMK & SU & ASIAA)

Session Classification: Accretion/ejection

Contribution ID: 47

Type: **not specified**

Magnetic reconnection at the base of relativistic jets

Wednesday, January 31, 2024 2:30 PM (5 minutes)

Presenter: NALEWAJKO, Krzysztof (Nicolaus Copernicus Astronomical Center, PAS, Warsaw, Poland)

Session Classification: Accretion/ejection

Contribution ID: 48

Type: **not specified**

From bubble to hole

Wednesday, January 31, 2024 2:40 PM (5 minutes)

Presenter: KRAJEWSKI, Tomasz (Centrum Astronomiczne im. Mikołaja Kopernika)

Session Classification: Accretion/ejection

Contribution ID: 49

Type: **not specified**

Accretion onto compact objects - models

Wednesday, January 31, 2024 2:55 PM (5 minutes)

Presenter: KLUŻNIAK, Wlodek (CAMK)

Session Classification: Accretion/ejection

Contribution ID: 50

Type: **not specified**

Beamed emission of accreting magnetized neutron star

Wednesday, January 31, 2024 2:45 PM (5 minutes)

Presenter: KAYANIKHOO, Fatemeh (Nicolaus Copernicus Astronomical Center)

Session Classification: Accretion/ejection

Contribution ID: 51

Type: **not specified**

Annual Report

Wednesday, January 31, 2024 2:50 PM (5 minutes)

Presenter: KARAKONSTANTAKIS, Angelos

Session Classification: Accretion/ejection

Contribution ID: 52

Type: **not specified**

X-ray-Detected SMBH transients with eROSITA

Wednesday, January 31, 2024 3:05 PM (5 minutes)

Presenter: MARKOWITZ, Alex (CAMK-PAN)

Session Classification: X-ray astrophysics

Contribution ID: 53

Type: **not specified**

Multiwavelength Study of Extreme Variability Changing Look AGNs

Wednesday, January 31, 2024 3:10 PM (5 minutes)

Presenter: SAHA, Tathagata (Nicholaus Copernicus Astronomical Center of the Polish Academy of Sciences)

Session Classification: X-ray astrophysics

Contribution ID: 54

Type: **not specified**

The challenges of the modeling Changing Look Active Galactic Nuclei and nuclear transients phenomena

Wednesday, January 31, 2024 3:15 PM (5 minutes)

Presenter: SNIEGOWSKA, Marzena (CAMK PAN, CFT PAN)

Session Classification: X-ray astrophysics

Contribution ID: 55

Type: **not specified**

X-ray studies of accretion

Wednesday, January 31, 2024 3:20 PM (5 minutes)

Presenter: ZYCKI, Piotr

Session Classification: X-ray astrophysics

Contribution ID: 56

Type: **not specified**

Annual Report

Wednesday, January 31, 2024 3:25 PM (5 minutes)

Presenter: ZDZIARSKI, Andrzej

Session Classification: X-ray astrophysics

Contribution ID: 57

Type: **not specified**

Annual Report

Wednesday, January 31, 2024 3:30 PM (5 minutes)

Presenter: Mr PALIT, Biswaraj (CAMK PAN)

Session Classification: X-ray astrophysics

Contribution ID: 58

Type: **not specified**

Annual Report

Wednesday, January 31, 2024 3:35 PM (5 minutes)

Presenter: WOJACZYŃSKI, Rafał (AstroCeNT CAMK)

Session Classification: X-ray astrophysics

Contribution ID: **60**

Type: **not specified**

Annual Report

Thursday, February 1, 2024 9:30 AM (5 minutes)

Presenter: MOBEEN, Muhammad Zain

Session Classification: Stars

Contribution ID: **62**

Type: **not specified**

Annual Report

Thursday, February 1, 2024 9:35 AM (5 minutes)

Presenter: STEINMETZ, Thomas (Nicolaus Copernicus Centre for Astronomy)

Session Classification: Stars

Contribution ID: **63**

Type: **not specified**

Annual report

Thursday, February 1, 2024 9:40 AM (5 minutes)

Presenter: SCHMIDT, Mirosław (Nicolaus Copernicus Astronomical Center of the Polish Academy of Sciences, Department of Astrophysics, Toruń)

Session Classification: Stars

Contribution ID: 64

Type: **not specified**

Neutron Capture Element Abundance Rich Stars in the GALAH survey

Thursday, February 1, 2024 9:45 AM (5 minutes)

Presenter: DA SILVA, André Rodrigo (Centrum Astronomiczne im. Mikołaja Kopernika - PAN)

Session Classification: Galactic archeology

Contribution ID: 65

Type: **not specified**

Annual Report

Thursday, February 1, 2024 9:50 AM (5 minutes)

Presenter: MARTÍNEZ FERNÁNDEZ, John Eduard (CAMK-PAN)

Session Classification: Galactic archeology

Contribution ID: **66**

Type: **not specified**

Annual Report

Thursday, February 1, 2024 9:55 AM (5 minutes)

Presenter: ÖZDEMİR, Sergen

Session Classification: Galactic archeology

Contribution ID: 67

Type: **not specified**

Impact of the stellar evolution adopting hydrodynamically consistent winds

Wednesday, January 31, 2024 5:15 PM (5 minutes)

Presenter: GORMAZ-MATAMALA, Alex (CAMK)

Session Classification: Stellar evolution and gravitational waves

Contribution ID: **68**

Type: **not specified**

Cepheids in binary systems - new discoveries

Wednesday, January 31, 2024 4:35 PM (5 minutes)

Presenter: Dr PILECKI, Bogumił (Centrum Astronomiczne im. M. Kopernika PAN)

Session Classification: Cepheids in binary systems

Contribution ID: 69

Type: **not specified**

Annual Report

Wednesday, January 31, 2024 4:40 PM (5 minutes)

Presenter: ESPINOZA, Felipe (CAMK)

Session Classification: Cepheids in binary systems

Contribution ID: 71

Type: **not specified**

Annual Report

Thursday, February 1, 2024 10:00 AM (5 minutes)

Presenter: MOSKALIK, Paweł

Session Classification: Stellar pulsations

Contribution ID: 72

Type: **not specified**

Annual Report

Thursday, February 1, 2024 10:05 AM (5 minutes)

Presenter: SMOLEC, Radoslaw (Nicolaus Copernicus Astronomical Center)

Session Classification: Stellar pulsations

Contribution ID: 73

Type: **not specified**

Non-evolutionary effects on Period change in Magellanic Cepheids

Thursday, February 1, 2024 10:10 AM (5 minutes)

Presenter: RATHOUR, Rajeev Singh (Nicolaus Copernicus Astronomical Center, Warsaw)

Session Classification: Stellar pulsations

Contribution ID: 74

Type: **not specified**

Evolutionary modelling of medium-mass stars

Thursday, February 1, 2024 10:15 AM (5 minutes)

Presenter: ZIÓLKOWSKA, Oliwia (CAMK)

Session Classification: Stellar pulsations

Contribution ID: 75

Type: **not specified**

Annual Report

Thursday, February 1, 2024 10:20 AM (5 minutes)

Presenter: EZE, Christian (CAMK PAN)

Session Classification: Stellar pulsations

Contribution ID: 76

Type: **not specified**

Circumstellar matter around RR Lyrae stars

Thursday, February 1, 2024 10:35 AM (5 minutes)

Presenter: HAJDU, Gergely (Nicolaus Copernicus Astronomical Center)

Session Classification: Stellar pulsations

Contribution ID: 77

Type: **not specified**

Upgrade of the OCM observatory

Thursday, February 1, 2024 10:40 AM (5 minutes)

Presenter: GÓRSKI, Marek (camk)

Session Classification: Stellar pulsations

Contribution ID: 78

Type: **not specified**

Upgrade of the OCM Observatory - New Control Software

Thursday, February 1, 2024 10:45 AM (5 minutes)

Presenter: KAŁUSZYŃSKI, Mikołaj (Nicolaus Copernicus Astronomical Centre, Polish Academy of Sciences, Warsaw, Poland)

Session Classification: Stellar pulsations

Contribution ID: 79

Type: **not specified**

Upgrade of the OCM Observatory

Thursday, February 1, 2024 10:50 AM (5 minutes)

Presenter: KICIA, Mirosław (Nicolaus Copernicus Astronomical Centre of the Polish Academy of Sciences)

Session Classification: Stellar pulsations

Contribution ID: **80**

Type: **not specified**

The Baade-Wesselink analysis of Type II Cepheids

Thursday, February 1, 2024 10:55 AM (5 minutes)

Presenter: WIELGORSKI, Piotr (Nicolaus Copernicus Astronomical Center Warsaw)

Session Classification: Stellar pulsations

Contribution ID: **82**

Type: **not specified**

Neutron stars

Presenter: HAENSEL, Pawel

Session Classification: Neutron stars and pulsars

Contribution ID: **83**

Type: **not specified**

Neutron Stars

Thursday, February 1, 2024 11:05 AM (5 minutes)

Presenter: ZDUNIK, Julian Leszek (CAMK)

Session Classification: Neutron stars and pulsars

Contribution ID: 84

Type: **not specified**

Superfluid neutron stars and gravitational waves

Thursday, February 1, 2024 11:15 AM (5 minutes)

Presenter: HASKELL, Brynmor (CAMK PAN)

Session Classification: Neutron stars and pulsars

Contribution ID: 85

Type: **not specified**

Improving fundamental astrophysics with eclipsing binary stars

Wednesday, January 31, 2024 5:05 PM (5 minutes)

Presenter: MILLER, Nikki (CAMK PAN, Warsaw)

Session Classification: Eclipsing binaries

Contribution ID: **86**

Type: **not specified**

Annual Report

Thursday, February 1, 2024 10:25 AM (5 minutes)

Presenter: MISZUDA, Amadesuz (CAMK PAN, Warsaw, Poland)

Session Classification: Stellar pulsations

Contribution ID: 87

Type: **not specified**

Radio pulsars

Thursday, February 1, 2024 11:20 AM (5 minutes)

Presenter: DYKS, Jaroslaw

Session Classification: Neutron stars and pulsars

Contribution ID: **88**

Type: **not specified**

Annual Report

Thursday, February 1, 2024 11:25 AM (5 minutes)

Presenter: LOKAS, Ewa (Copernicus Center)

Session Classification: Galaxies and cosmology

Contribution ID: **90**

Type: **not specified**

Annual Report

Presenter: ROSZKOWSKI, Leszek (CAMK PAN)

Session Classification: AstroCENT

Contribution ID: **91**

Type: **not specified**

Annual Report

Thursday, February 1, 2024 12:00 PM (5 minutes)

Presenter: KUŹNIAK, Marcin (AstroCeNT / CAMK PAN)

Session Classification: AstroCENT

Contribution ID: 92

Type: **not specified**

Modeling of Infrasound Sound Inside the Virgo Building

Presenter: YADAV, Nikesh (Nicolaus Copernicus Astronomical Center of the Polish Academy of Sciences)

Session Classification: AstroCENT

Contribution ID: 93

Type: **not specified**

Annual Report

Thursday, February 1, 2024 12:05 PM (5 minutes)

Presenter: HUGUES, Theo (CAMK PAN)

Session Classification: AstroCENT

Contribution ID: 94

Type: **not specified**

Seismic and infrasound sensors

Thursday, February 1, 2024 12:10 PM (5 minutes)

Presenter: SUCHENEK, Mariusz (Astrocent)

Session Classification: AstroCENT

Contribution ID: 95

Type: **not specified**

Liquid Argon Technology for Dark Matter Direct Detection and Medical Application

Thursday, February 1, 2024 12:20 PM (5 minutes)

Presenter: WADA, Masayuki (AstroCent)

Session Classification: AstroCENT

Contribution ID: 96

Type: **not specified**

A Novel Total-Body PET Scanner Using Xenon-Doped Liquid Argon Scintillator for Outstanding Detection

Thursday, February 1, 2024 12:25 PM (5 minutes)

Presenter: ZABIHI, Azam (ASTROCeNT)

Session Classification: AstroCENT

Contribution ID: 97

Type: **not specified**

Study of low-energy events in liquid argon for dark matter searches

Thursday, February 1, 2024 12:30 PM (5 minutes)

Presenter: SUNNY, Clea (CAMK PAN)

Session Classification: AstroCENT

Contribution ID: 98

Type: **not specified**

Annual Report

Thursday, February 1, 2024 12:35 PM (5 minutes)

Presenter: ZAKHARY, Paul (AstroCeNT)

Session Classification: AstroCENT

Contribution ID: 99

Type: **not specified**

Annual Report

Thursday, February 1, 2024 12:15 PM (5 minutes)

Presenter: PIETRZAK, Mateusz

Session Classification: AstroCENT

Contribution ID: **100**

Type: **not specified**

Annual Report

Thursday, February 1, 2024 12:40 PM (5 minutes)

Presenter: AHMAD, Iftikhar (Astrocent, Poland)

Session Classification: AstroCENT

Contribution ID: **101**

Type: **not specified**

Annual Report

Thursday, February 1, 2024 12:45 PM (5 minutes)

Presenter: ALHASSAN, Wathela (CAMK)

Session Classification: AstroCENT

Contribution ID: 102

Type: **not specified**

Scientific Computing & Information Technology Group Scientific Computing & Information Technology Group activities at AstroCeNT

Thursday, February 1, 2024 12:50 PM (5 minutes)

Presenter: Prof. GAWRON, Piotr (CAMK PAN)

Session Classification: AstroCENT

Contribution ID: **103**

Type: **not specified**

Quantum Machine Learning for Earth Observation

Thursday, February 1, 2024 12:55 PM (5 minutes)

Presenter: GUPTA, Manish Kumar

Session Classification: AstroCENT

Contribution ID: **104**

Type: **not specified**

Annual Report

Thursday, February 1, 2024 11:10 AM (5 minutes)

Presenter: SANJINEZ ORTIZ, Monica

Session Classification: Neutron stars and pulsars

Contribution ID: **105**

Type: **not specified**

Annual Report

Thursday, February 1, 2024 1:00 PM (5 minutes)

Presenter: CHOUDHARY, Sarthak (AstroCeNT)

Session Classification: AstroCENT

Contribution ID: **106**

Type: **not specified**

Study of cosmic ray muons with KM3NeT

Thursday, February 1, 2024 1:05 PM (5 minutes)

Presenter: KALACZYŃSKI, Piotr (AstroCeNT)

Session Classification: AstroCENT

Contribution ID: **107**

Type: **not specified**

Annual Report

Thursday, February 1, 2024 1:10 PM (5 minutes)

Presenter: OLSZEWSKI, Michal

Session Classification: AstroCENT

Contribution ID: **108**

Type: **not specified**

Annual Report

Thursday, February 1, 2024 10:30 AM (5 minutes)

Presenter: SAHOO, Sumanta Kumar (Nicolaus Copernicus Astronomical Center, Warsaw, Poland)

Session Classification: Stellar pulsations

Contribution ID: **110**

Type: **not specified**

Interstellar Extinction

Thursday, February 1, 2024 11:00 AM (5 minutes)

Presenter: CHINI, Rolf (CAMK)

Session Classification: Stellar pulsations