CAMK Annual Meeting 2024



Report of Contributions

Contribution ID: 12 Type: not specified

Hyper-Kamiokande

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

Presenter: ZIEMBICKI, Marcin (Nicolaus Copernicus Astronomical Centre, Polish Academy of Sci-

ences)

Session Classification: Large Scale Projects

Contribution ID: 13 Type: not specified

LIGO-Virgo-KAGRA

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

Presenter: BEJGER, Michał (CAMK)

Session Classification: Large Scale Projects

Contribution ID: 14 Type: not specified

CUBES and WST

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

Presenter: SMILJANIC, Rodolfo (CAMK)

Session Classification: Large Scale Projects

Contribution ID: 15 Type: not specified

ARAUKARIA

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

Presenter: PIETRZYNSKI, Grzegorz (CAMK)

Session Classification: Large Scale Projects

Contribution ID: 16 Type: not specified

BRITE-PL

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

Presenter: HANDLER, Gerald

Session Classification: Large Scale Projects

Contribution ID: 17 Type: not specified

SOLARIS

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

Presenter: KONACKI, Maciej

Session Classification: Large Scale Projects

Contribution ID: 18 Type: not specified

HESS/CTA

Wednesday, 31 January 2024 12:30 (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, 31 January 2024 12:40 (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, 31 January 2024 17:10 (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, 31 January 2024 17:20 (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, 31 January 2024 17:25 (5 minutes)

Presenter: ROMAGNOLO, Amedeo

Session Classification: Stellar evolution and gravitational waves

Contribution ID: 23 Type: not specified

Annual Report

Wednesday, 31 January 2024 17:30 (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, 31 January 2024 17:35 (5 minutes)

Presenter: BULIK, Tomasz (Obserwatorium Astronomiczne UW)

Session Classification: Stellar evolution and gravitational waves

Contribution ID: 25 Type: not specified

Annual Report

Wednesday, 31 January 2024 16:45 (5 minutes)

Presenter: GRACZYK, Dariusz (CAMK)

Session Classification: Eclipsing binaries

Contribution ID: 26 Type: not specified

Annual Report

Wednesday, 31 January 2024 16:50 (5 minutes)

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

Session Classification: Eclipsing binaries

Contribution ID: 27 Type: not specified

Annual Report

Wednesday, 31 January 2024 16:55 (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, 31 January 2024 17:00 (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, 31 January 2024 14:00 (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, 31 January 2024 14:10 (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, 31 January 2024 14:05 (5 minutes)

Presenter: HYPKI, Arkadiusz (Nicolaus Copernicus Astronomical Center Polish Academy of Sci-

ences)

Session Classification: Stellar Clusters

Contribution ID: 37 Type: not specified

Synthetic populations of ultraluminous X-ray sources in globular clusters

Wednesday, 31 January 2024 14:15 (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, 31 January 2024 14:20 (5 minutes)

Presenter: HELLSTRÖM, Lucas

Session Classification: Stellar Clusters

Contribution ID: 39 Type: not specified

Novae and related binaries

Wednesday, 31 January 2024 16:30 (5 minutes)

Presenter: MIKOŁAJEWSKA, Joanna

Session Classification: Symbiotic stars

Contribution ID: 40 Type: not specified

Growing Black Holes in Stellar Clusters

Wednesday, 31 January 2024 14:25 (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, 31 January 2024 15:45 (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, 31 January 2024 15:50 (5 minutes)

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

Session Classification: Binary stars

Contribution ID: 43 Type: not specified

Annual Report

Wednesday, 31 January 2024 15:40 (5 minutes)

Presenter: HEŁMINIAK, Krzysztof (CAMK Toruń)

Session Classification: Binary stars

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

Annual Report

Wednesday, 31 January 2024 15:55 (5 minutes)

Presenter: PAWAR, Tilaksingh (NCAC, Torun)

Session Classification: Binary stars

Contribution ID: 45 Type: not specified

ULXs are beamed

Wednesday, 31 January 2024 15:00 (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, 31 January 2024 14:35 (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, 31 January 2024 14:30 (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, 31 January 2024 14:40 (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, 31 January 2024 14:55 (5 minutes)

Presenter: KLUŹNIAK, Wlodek (CAMK)

Session Classification: Accretion/ejection

Contribution ID: **50** Type: **not specified**

Beamed emission of accreting magnetized neutron star

Wednesday, 31 January 2024 14:45 (5 minutes)

Presenter: KAYANIKHOO, Fatemeh (Nicolaus Copernicus Astronomical Center)

Session Classification: Accretion/ejection

Contribution ID: 51 Type: not specified

Annual Report

Wednesday, 31 January 2024 14:50 (5 minutes)

Presenter: KARAKONSTANTAKIS, Angelos

Session Classification: Accretion/ejection

Contribution ID: 52 Type: not specified

X-ray-Detected SMBH transients with eROSITA

Wednesday, 31 January 2024 15:05 (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, 31 January 2024 15:10 (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, 31 January 2024 15:15 (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, 31 January 2024 15:20 (5 minutes)

Presenter: ZYCKI, Piotr

Session Classification: X-ray astrophysics

Contribution ID: 56 Type: not specified

Annual Report

Wednesday, 31 January 2024 15:25 (5 minutes)

Presenter: ZDZIARSKI, Andrzej

Session Classification: X-ray astrophysics

Contribution ID: 57 Type: not specified

Annual Report

Wednesday, 31 January 2024 15:30 (5 minutes)

Presenter: Mr PALIT, Biswaraj (CAMK PAN)

Session Classification: X-ray astrophysics

Contribution ID: 58 Type: not specified

Annual Report

Wednesday, 31 January 2024 15:35 (5 minutes)

Presenter: WOJACZYŃSKI, Rafał (AstroCeNT CAMK)

Session Classification: X-ray astrophysics

Contribution ID: 60 Type: not specified

Annual Report

Thursday, 1 February 2024 09:30 (5 minutes)

Presenter: MOBEEN, Muhammad Zain

Session Classification: Stars

Contribution ID: 62 Type: not specified

Annual Report

Thursday, 1 February 2024 09:35 (5 minutes)

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

Session Classification: Stars

Contribution ID: 63 Type: not specified

Annual report

Thursday, 1 February 2024 09:40 (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, 1 February 2024 09:45 (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, 1 February 2024 09:50 (5 minutes)

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

Session Classification: Galactic archeology

Contribution ID: 66 Type: not specified

Annual Report

Thursday, 1 February 2024 09:55 (5 minutes)

Presenter: ÖZDEMIR, Sergen

Session Classification: Galactic archeology

Contribution ID: 67 Type: not specified

Impact of the stellar evolution adopting hydrodynamically consistent winds

Wednesday, 31 January 2024 17:15 (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, 31 January 2024 16:35 (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, 31 January 2024 16:40 (5 minutes)

Presenter: ESPINOZA, Felipe (CAMK)

Session Classification: Cepheids in binary systems

Contribution ID: 71 Type: not specified

Annual Report

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

Presenter: MOSKALIK, Paweł

Session Classification: Stellar pulsations

Contribution ID: 72 Type: not specified

Annual Report

Thursday, 1 February 2024 10:05 (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, 1 February 2024 10:10 (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, 1 February 2024 10:15 (5 minutes)

Presenter: ZIÓŁKOWSKA, Oliwia (CAMK)

Session Classification: Stellar pulsations

Contribution ID: 75 Type: not specified

Annual Report

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

Presenter: EZE, Christian (CAMK PAN)

Session Classification: Stellar pulsations

Contribution ID: 76 Type: not specified

Circumstellar matter around RR Lyrae stars

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

Presenter: HAJDU, Gergely (Nicolaus Copernicus Astronimcal Center)

Session Classification: Stellar pulsations

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

Upgrade of the OCM observatory

Thursday, 1 February 2024 10:40 (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, 1 February 2024 10:45 (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, 1 February 2024 10:50 (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, 1 February 2024 10:55 (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, 1 February 2024 11:05 (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, 1 February 2024 11:15 (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, 31 January 2024 17:05 (5 minutes)

Presenter: MILLER, Nikki (CAMK PAN, Warsaw)

Session Classification: Eclipsing binaries

Contribution ID: 86 Type: not specified

Annual Report

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

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

Session Classification: Stellar pulsations

Contribution ID: 87 Type: not specified

Radio pulsars

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

Presenter: DYKS, Jaroslaw

Session Classification: Neutron stars and pulsars

Contribution ID: 88 Type: not specified

Annual Report

Thursday, 1 February 2024 11:25 (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, 1 February 2024 12:00 (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, 1 February 2024 12:05 (5 minutes)

Presenter: HUGUES, Theo (CAMK PAN)

Session Classification: AstroCENT

Contribution ID: 94 Type: not specified

Seismic and infrasound sensors

Thursday, 1 February 2024 12:10 (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, 1 February 2024 12:20 (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, 1 February 2024 12:25 (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, 1 February 2024 12:30 (5 minutes)

Presenter: SUNNY, Clea (CAMK PAN)

Session Classification: AstroCENT

Contribution ID: 98 Type: not specified

Annual Report

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

Presenter: ZAKHARY, Paul (AstroCeNT)

Session Classification: AstroCENT

Contribution ID: 99 Type: not specified

Annual Report

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

Presenter: PIETRZAK, Mateusz

Session Classification: AstroCENT

Contribution ID: 100 Type: not specified

Annual Report

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

Presenter: AHMAD, Iftikhar (Astrocent, Poland)

Session Classification: AstroCENT

Contribution ID: 101 Type: not specified

Annual Report

Thursday, 1 February 2024 12:45 (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, 1 February 2024 12:50 (5 minutes)

Presenter: Prof. GAWRON, Piotr (CAMK PAN)

Session Classification: AstroCENT

Contribution ID: 103 Type: not specified

Quantum Machine Learning for Earth Observation

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

Presenter: GUPTA, Manish Kumar

Session Classification: AstroCENT

Contribution ID: 104 Type: not specified

Annual Report

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

Presenter: SANJINEZ ORTIZ, Monica

Session Classification: Neutron stars and pulsars

Contribution ID: 105 Type: not specified

Annual Report

Thursday, 1 February 2024 13:00 (5 minutes)

Presenter: CHOUDHARY, Sarthak (AstroCeNT)

Session Classification: AstroCENT

Contribution ID: 106 Type: not specified

Study of cosmic ray muons with KM3NeT

Thursday, 1 February 2024 13:05 (5 minutes)

Presenter: KALACZYŃSKI, Piotr (AstroCeNT)

Session Classification: AstroCENT

Contribution ID: 107 Type: not specified

Annual Report

Thursday, 1 February 2024 13:10 (5 minutes)

Presenter: OLSZEWSKI, Michal

Session Classification: AstroCENT

Contribution ID: 108 Type: not specified

Annual Report

Thursday, 1 February 2024 10:30 (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, 1 February 2024 11:00 (5 minutes)

Presenter: CHINI, Rolf (CAMK)

Session Classification: Stellar pulsations