

Session Program

Aug 19 - 23, 2024



MODEST-24: Exploring Dense Stellar Systems Across Cosmic Time

***Stellar multiplicity, exotica, and transients in
star clusters***

Nicolaus Copernicus Astronomical Center, Warsaw, Poland, Main Lecture Hall
Bartycka 18, 00-716 Warsaw Poland

Wed, August 21

1:45 PM

Stellar multiplicity, exotica, and transients in star clusters: Afternoon Session 1

Session |**Location:** Nicolaus Copernicus Astronomical Center, Warsaw, Poland, Main Lecture Hall, Bartycka 18, 00-716 Warsaw Poland

1:45 - 2:05 PM

Binaries in 47 Tuc: Confronting cluster simulations with observations

Speaker

Stefan Dreizler

2:05 - 2:25 PM

Runaway and Hyper-runaway Stars from Merging Star Clusters with Massive Black Holes

Speaker

Lazaros Souvatzis

2:25 - 2:45 PM

Stars and Black Holes in Young Star Clusters: Friends or Foes?

Speaker

Sara Rastello

2:45 - 3:05 PM

From Clustered Environments to Common Envelopes: The first systematic identification of white dwarf-main sequence post-common envelope binaries in star clusters

Speaker

Steffani Grondin

3:05 - 3:25 PM

Binary Formation from Three Initially Unbound Bodies

Speaker

Dany Atallah

3:25 PM

Thu, August 22

9:00 AM

Stellar multiplicity, exotica, and transients in star clusters: Morning Session 1

Session |

Location: Nicolaus Copernicus Astronomical Center, Warsaw, Poland, Main Lecture Hall, Bartycka 18, 00-716 Warsaw Poland

9:00 – 9:20 AM

Investigating Blue Straggler Stars of Open Clusters and Fields using UVIT/AstroSat

Speaker

Kaushar Vaidya

9:20 – 9:40 AM

Modelling Millisecond Pulsar Populations in Globular Clusters with NBODY6++GPU

Speaker

Yuzhe Song

9:40 – 10:00 AM

Probing Intracluster Dynamics and Evolution of Globular Clusters through Cataclysmic Variable Populations

Speaker

Kwangmin Oh

10:00 – 10:20 AM

MOCCA: Dynamical blue stragglers excess after core collapse

Speaker

Dr Arkadiusz Hypki

10:20 – 10:40 AM

A systematic method to identify runaways from star clusters produced from single-binary interactions: A case study of M67

Speaker

Mr Alonso Herrera Urquieta

10:40 AM

11:05 AM

Stellar multiplicity, exotica, and transients in star clusters: Morning Session 2

Session |

Location: Nicolaus Copernicus Astronomical Center, Warsaw, Poland, Main Lecture Hall, Bartycka 18, 00-716 Warsaw Poland

11:05 – 11:25 AM

Inert compact binary formation in open clusters

Speaker

Ataru Tanikawa

11:25 – 11:45 AM

Magnetic field amplification during stellar collisions and its implication for blue stragglers

Speaker

Taeho Ryu

11:45 AM – 12:05 PM

A study of the exotic pulsars in the globular cluster NGC 1851

Speaker

Arunima Dutta

12:05 - 12:25 PM

Exploring the phenomenon of split main sequence in young star clusters via binary stars**Speaker**

Fabrizio Muratore

12:25 - 12:45 PM

Whispering in the dark: X-ray faint black holes around OB stars**Speaker**

Koushik Sen

12:45 PM

2:15 PM

Stellar multiplicity, exotica, and transients in star clusters: Afternoon Session 1**Session****Location:** Nicolaus Copernicus Astronomical Center, Warsaw, Poland, Main Lecture Hall, Bartycka 18, 00-716 Warsaw Poland

2:15 - 2:35 PM

The importance of dynamics in the cataclysmic variables in globular clusters**Speaker**

Liliana Rivera Sandoval

2:35 - 2:55 PM

The disintegration process and orbital evolution of equal-mass hierarchical triple systems**Speaker**

Ryutaro Iwakura

2:55 - 3:15 PM

Synthetic Populations of Ultra-Luminous X-ray Sources in Globular Clusters**Speaker**

Grzegorz Wiktorowicz

3:15 - 3:35 PM

The effect of dynamically formed binaries on young planetary systems**Speaker**

Christina Schoettler

3:35 - 3:55 PM

The ejection of hypervelocity stars from Milky Way globular clusters**Speaker**

Fraser Evans

3:55 PM