

European Astronomical Society (EAS) Conference:

"HERA24 -The Nature and the Dynamics of Structures Observed in Galactic Disks"
15 - 20 September 2024, Academy of Athens, GREECE

15. SUNDAY: Garden of National Observatory of Athens:

18:00: Registration

19:00: Welcome addresses by the organizers and by:

Prof. M. Plionis (Director, National Observatory of Athens)

Prof. A. Burkert (European Astronomical Society)

Dr. S. Jorda (Heraeus Foundation)

Reception

16. MONDAY

17. TUESDAY

09:00 Welcome addresses by

Prof. G. Contopoulos

Prof. S. Krimigis

Chair: A. Burkert

09:30 - 11:00 E. Athanassoula:

N-body simulations of disk galaxies

11:00 - 11:30 Coffee break

11:30 - 12:00 D. Zakharova:

Kinematic features of galaxies with bars

12:00 - 12:30 A. Mitrašinović:

Double bars in the aftermath of a galaxy flyby

12:30 - 13:00 C. Tsakonas:

A major merger model for Andromeda's galaxy (M31) recent accretion event and direct comparison with chemodynamical observations.

13:00 - 13:30 C. de Sá Freitas:

Deriving bar formation epoch in nearby galaxies: First insights on secular evolution

13:30 - 15:00 Lunch break

Chair: M. Harsoula

9:30 - 11:00 F. Fragkoudi:

Barred galaxies in cosmological simulations

11:00 - 11:30 Coffee break

11:30 - 12:00 T. Tomlinson:

Evidence for bar resonance substructure in a cosmological simulation

12:00 - 12:30 P. D. López:

From bars to boxy/peanut bulges: formation mechanism and evolution in cosmological simulations

12:30 - 13:00 S. Nepal:

Milky Way's old thin disc and a young bar: new insights on MW disc history with Gaia, machine learning and precise stellar ages

13:00 - 13:30 A. Merrow:

Did GES form the Milky Way's Bar?

13:30 - 15:00 Lunch break

Chair: D. Gadotti

15:00 - 16:30 A. Bosma:

Rotation curves of galaxies and Dark Matter

16:30 - 17:00 Coffee break

17:00 - 17:30 B-I. Ciocan:

The MUSE Hubble Ultra Deep Field survey: Dark matter halo properties of intermediate-z star-forming galaxies

17:30 - 18:00 J.M. Espejo Salcedo:

Angular momentum measurements of high redshift disks

18:00 - 18:30 P. Gherghinescu:

Action-based dynamical models for M31-like galaxies

Chair: M. Sormani

15:00 - 16:30 D. Pfenniger:

Pattern speeds of bars and spirals

16:30 - 17:00 Coffee break

17:00 - 17:30 A. Marchuk:

Decomposing the spiral arms: what are they?

17:30 - 18:00 C. Buttitta:

The case study of NGC4277: a slow bar in a dark-matter dominated lenticular barred galaxy

18:00 - 18:30 O. Jiménez-Arranz:

The Magellanic Clouds with high resolution glasses

20:30 CONFERENCE DINNER

18. WEDNESDAY

Chair: E. Athanassoula

10:30 - 12:00 P.A. Patsis:

Orbital theory and the structure of galactic disks

12:00 - 12:30 Coffee break

12:30 - 13:00 A. Smirnov:

N-body bars in the action space: orbital study

13:00 - 13:30 R. Tkachenko:

The Influence of the Milky Way bar on the distribution of globular clusters in kinematic space

13:30 - 15:00 Lunch break

Chair: A. Bosma

15:00 - 16:30 D. Gadotti:

State of the art observations of disk galaxies

16:30 - 17:00 Coffee break

17:00 - 17:30 M. Cunningham:

Influence of Early Galaxy Properties on Disk Dynamics

17:30 - 18:00 F. Rigamonti:

Dynamical modeling of bulges and discs: a census across kinematics, mass, and star-formation from the MaNGA survey

18:00 - 18:30 M. Bernet:

The Milky Way kinematic substructure as a dynamics discovery tool: the cases of the bar and the tidal spiral arms

18:30 - 19:00 L. Quilley:

Tailoring galaxies along the Hubble sequence: how bulge growth shapes the evolution of galaxies

19:30 X. Moussas:

The Antikythera Mechanism: The oldest mechanical Cosmos

19. THURSDAY

Chair: D. Pfenniger

9:30 - 11:00 M. Sormani:

Hydrodynamics of the innermost 1 kpc

11:00 - 11:30 Coffee break

11:30 - 12:00 S. Pastras:

Gas transport and galactic structure at $z \sim 1-3$ in simulations

12:00 - 12:30 P. Okalidis:

Radial transport of gas and stars in disc galaxies in the Auriga simulations

12:30 - 13:00 J. Popp:

Investigating Star-forming Clumps in Galaxies from SDSS, CLAUDS and HSC-SSP using

Deep-Learning based Object Detection

13:00 - 13:30 Z. Le Conte:

A JWST investigation into the bar fraction at high redshifts $z \geq 1$

13:30 - 15:00 Lunch break

17:30 - 20:00 **ACROPOLIS MUSEUM**

20. FRIDAY

Chair: P.A. Patsis

Hands-on Workshop: How to use data from Cosmological Simulations

09:30 - 10:30 F. Fragkoudi

10:30 - 11:00 K. Bogue:

The Impact of Magnetic Fields on the Star-Forming ISM in Simulated Galaxies

11:00 - 11:30 Coffee break

11:30 - 12:00 N. Uppal:

Mapping the Milky Way: ISM polarization for tracing Disk Structures and 3D magnetic fields

12:00 - 12:30 L. Cullinane:

Stellar Structures in the Magellanic Clouds

12:30 - 13:00 A. Audibert:

Feedback from low-power radio jets on the gas reservoirs of quasars

13:00 - 13:30 A. Farhan:

Deciphering Water Megamaser Galaxies

13:30 - 15:00 Lunch break

15:00 - 15:30 E. Koutsoumpou:

The impact of cosmic rays on gas clouds

15:30 - 16:00 A. Triantafyllaki:

Dynamical friction: a case study on its effect on the tails of globular clusters and its application on galactic systems

16:00 - 16:30 Coffee break

Round Table Discussion

16:30 - 18:00

Connecting Morphologies with the results of N-body Simulations and Orbital Theory