



كلية العلوم
السملاية - مراكش
FACULTÉ DES SCIENCES
SEMLALIA - MARRAKECH

RRL 2024 **CEP**



كلية العلوم
والتقنيات - مراكش
FACULTÉ DES SCIENCES
ET TECHNIQUES - MARRAKECH

Program

*5th edition of the RR Lyrae and
Cepheid meeting*

“Frontiers of Classical Pulsators –
Theory and Observations”

**November 24-30, 2024 Marrakesh,
Morocco**



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AfAS
African Astronomical Society



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Conferences & Oral Communications

Program guide

RRL CEP	Sunday	Monday		Tuesday		Wednesday		Thursday		Friday		Saturday			
		Sessions	Speaker	Sessions	Speaker	Sessions	Speaker	Sessions	Speaker	Sessions	Speaker				
09:00 – 09:45	Arrival	Opening Ceremony	<u>Nobel Prize</u> Adam Reiss	Numerical modeling	Gábor Kovács	Space photometry	László Molnár	Period-luminosity relations	Louise Breuvel	Spectroscopy and interferometry of classical pulsators	Alexandre Gallene	Excursion to Oukaimeden Observatory			
09:45 – 10:30			What JWST Can and Cannot (yet) Reveal about the Hubble Tension		Sylvia Ekstrom	Secondary variability in Cepheids and RR Lyrae stars	József Benkő		Mahdi Abdollahi Alessia Garofalo Weronika Narloch		P. Karczmarek				
10:30 – 11:00		Coffee break													
11:00 – 11:45		Classical pulsators in the Gaia era	V. Ripepi		Richard Anderson Anupam Bhardwaj Gautam Bhuvan		Khadija Chafouai Geza Kovacs Kerदारis Kurbah			Bogumil Pilecki Manuel Sánchez Benavente Teresa Scignano			Giuseppe Bono Garance Bras Youssef El jarir		
11:45 – 12:30			Massimo dall’Ora	RR Lyrae stars and Cepheids in stellar Systems – I	Olivia Ziolkowska Mauricio Cruz Reyes Giulia De Somma		Emese Plachy Alexey Bobrick Gergely Hajdu	large scale photometric surveys	Julio Olivares Carvajal Pawel Pietrukowicz László Molnár		Gustavo Medina Toledo Henryka Netzel Nancy Remage Evans				
12:30 – 14:00		Lunch break													
14:00 – 14:45		Registration		Susmita Das Felipe Espinoza Arancibia Giuliano Iorio		Z. Prudil	RR Lyrae stars and Cepheids in stellar Systems – II	Rajeev Singh Rathour Clara Martinez-Vazquez Cecilia Mateu	Future instrumentation, data analysis techniques	Nina Hernitschek			Outreach		
14:45 – 15:30				Marcella Marconi Ilaria Musella Dorota Skowron		Kathy Vivas Mami Deka Giuliana Fiorentino		Matteo Monelli Maria Tantaló Giordano Viviani		Marcella Di Criscienzo Tatiana Muravysva Erasmus Trentin					
15:30 – 16:00			Coffee break												
16:00 – 16:30				Flash Poster G1		Csilla Kalap Iengen Iengen Emanuela Luongo		Flash Poster G2		Karina Baeza Villagra Manon Bailleur Vittorio Francesco Braga					
18:00									Conference Dinner						

Registration

SUNDAY November 24, 2024

14 h 00 - 16 h 30

Participant Welcome and Registration

MONDAY November 25, 2024

Opening Session

09 h 00 - 10 h 30

**Nobel Prize ; What JWST Can and Cannot (yet)
Reveal about the Hubble Tension .
Adam Reiss**

10h30-11h00 : Coffee Break & Poster Session

11 h 00 - 11 h 45

V. Ripepi

11 h 45 - 12 h 30

Massimo dall'Ora

12h30-14h00 : Lunch

14 h 00 - 14 h 15

Susmita Das

14 h 00 - 14 h 30

Felipe Espinoza Arancibia

14 h 30 - 14 h 45

Giuliano Iorio

14 h 45 - 15 h 00

Marcella Marconi

15 h 00 - 15 h 15

Ilaria Musella

15 h 15 - 15 h 30

Dorota Skowron

15h30-16h00 : Coffee Break & Poster Session

15h30-16h00 : Flash Poster **Group 1** :

Mahmud Negm Eldin
Astronomy Department, Faculty of
Science, Cairo University, Egypt

**The Physical Characteristics Based on Photometric Study for
Overcontact Binary Systems of W-UMa Type.**

Young-Beom Jeon
Korea Astronomy & Space
Science Institute / KASI

Spectroscopic observations for RR Lyrae stars

Wilma Kiviaho
Observatoire de Paris

Interstellar Reddening of Galactic Cepheids

Sayali Kulkarni
Centro de Estudios de Física del
Cosmos de Aragón, Teruel Spain

**RR Lyrae Stars: A Pulsating Window into the Milky Way using
J-VAR DR1**

Rajeev Singh Rathour
Nicolaus Copernicus
Astronomical Center, Warsaw, PL

**Investigating the Pulsation Properties of Classical Cepheids: A
MESA-RSP Survey**

Radosław Smolec
Nicolaus Copernicus
Astronomical Center

**Towards consistent set of evolutionary and pulsation models with
MESA**

Joseph Mullen
Vanderbilt University / University
of North Florida

**A NUV Analysis of Field RR Lyrae: Leveraging Archival Data
and Preparing for Future Surveys**

Jae Woo Lee
Korea Astronomy and Space
Science Institute

**Absolute Properties of the Oscillating Eclipsing Algol XZ Ursae
Majoris**

Tuesday November 26, 2024

09 h 00 - 09 : h 45

Gábor Kovács

09 h 45 - 10 h 30

Sylvia Ekstrom

10h30-11h00 : Coffee Break & Poster Session

14 h 00 - 14 h 15

Richard Anderson

14 h 00 - 14 h 30	Anupam Bhardwaj
14 h 30 - 14 h 45	Gautam Bhuyan
14 h 45 - 15 h 00	Oliwia Ziolkowska
15 h 00 - 15 h 15	Mauricio Cruz Reyes
15 h 15 - 15 h 30	Giulia De Somma

12h30-14h00 : Lunch

14 h 00 - 14 h 45	Z. Prudil
14 h 45 - 15 h 00	Kathy Vivas
15 h 00 - 15 h 15	Mami Deka
15 h 15 - 15 h 30	Giuliana Fiorentino

15h30-16h00 : Coffee Break & Poster Session

15 h 00 - 14 h 45	Csilla Kalup
14 h 45 - 15 h 00	lengen lengen
15 h 00 - 15 h 15	Emanuela Luongo

Wednesday November 26, 2024

09 h 00 - 09 : h 45	László Molnár
09 h 45 - 10 h 30	József Benkő

10h30-11h00 : Coffee Break & Poster Session

14 h 00 - 14 h 15	Khadija Chafouai
14 h 00 - 14 h 30	Geza Kovacs
14 h 30 - 14 h 45	Kerdaris Kurbah

14 h 45 - 15 h 00	Emese Plachy
15 h 00 - 15 h 15	Alexey Bobrick
15 h 15 - 15 h 30	Gergely Hajdu

12h30-14h00 : Lunch

14 h 00 - 14 h 15	Rajeev Singh Rathour
14 h 00 - 14 h 30	Clara Martinez-Vazquez
14 h 30 - 14 h 45	Cecilia Mateu
14 h 45 - 15 h 00	Matteo Monelli
15 h 00 - 15 h 15	Maria Tantalo
15 h 15 - 15 h 30	Giordano Viviani

15h30-16h00 : Coffee Break & Poster Session

15h30-16h00 : Flash Poster **Group 2 :**

Henryka Netzel EPFL	On the Incidence Rate of RR Lyrae Stars with Non-Radial Modes
Garance Bras LESIA, Paris Observatory	Versatile templates of light curves of Cepheids
Felipe Espinoza Arancibia Nicolaus Copernicus Astronomical Center	Empirical instability strip for classical Cepheids in the Magellanic Clouds
Chow-Choong Ngeow Graduate Institute of Astronomy, National Central University	Y-band Template Light-Curve for RR Lyrae
Bárbara Pozo Pontificia Universidad Católica de Chile	Multi-Band Study of the Morphology of RR Lyrae Light Curves
Mohamed Amrar Faculty of Sciences Semlalia, Laboratory Of High Energy Physics and Astrophysics , Cadi Ayyad University, Morocco.	Comparative Analysis of Variable Stars from the Kepler Space Telescope and the Oukaimeden Observatory
Joseph Mullen	A comprehensive and updated study of BL Herculis stars

Thursday November 28, 2024

09 h 00 - 09 h 45

LOUISE BREUVEL

09 h 45 - 10 h 30

Mahdi Abdollahi

09 h 45 - 10 h 30

Steven Ardern

09 h 45 - 10 h 30

Weronika Narloch

10h30-11h00 : Coffee Break & Poster Session

11 h 00 - 11 h 45

Bogumił Pilecki

11 h 00 - 11 h 45

Manuel sánchez Benavente

11 h 00 - 11 h 45

Teresa Sicignano

11 h 45 - 12 h 30

Julio Olivares Carvajal

11 h 45 - 12 h 30

Paweł Pietrukowicz

11 h 45 - 12 h 30

Daniel Jadlovsky

12h30-14h00 : Lunch

14 h 00 - 14 h 45	Nina Hernitschek
14 h 45 - 15 h 00	Maecella Di Criscienzo
15 h 00 - 15 h 15	Tatiana Muraveva
15 h 15 - 15 h 30	Erasmus Trentin

15h30-16h00 : Coffee Break & Poster Session

15 h 30 - 16h 30	Karina BaezaVillagra
16 h 00 - 16 h 30	Manon Bailleul
16 h 00 - 16 h 30	Vittorio Francesco Braga

18 h 00 : conference dinner

Friday November 29, 2024

09 h 00 - 09 : h 45	Alexandre Gallene
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09 h 45 - 10 h 30	P. Karczmarek
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10h30-11h00 : Coffee Break & Poster Session

11 h 00 - 11 h 15	Giuseppe Bono
11 h 00 - 11 h 30	Garance Bras
11 h 00 - 11 h 45	Youssef El jarir
11 h 45 - 12 h 30	Gustavo Medina Toledo
11 h 45 - 12 h 30	Henryka Netzel
11 h 45 - 12 h 30	Nancy Remage Evans

Saturday November 30, 2024

Excursion to Oukaimeden Observatory