

Welcome to the

Spanish and Portuguese Relativity Meeting EREP 2024

Department of Physics, University of Coimbra, Portugal

22-26 July 2024

João Rosa
University of Coimbra

Spanish and Portuguese Relativity Meeting (EREP 2024)

erep2024@uc.pt



<https://indico.cern.ch/event/1346918/overview>

PARTICIPATING INSTITUTIONS AND SOCIETIES

- Centre for Physics of the University of Coimbra (CFisUC), University of Coimbra
- Spanish Relativity and Gravitation Society (SEGRE)
- Portuguese Relativity and Gravitation Society (SPRG)
- Associação para o Desenvolvimento do Departamento de Física (ADDF)

PARTICIPATING FOUNDATION

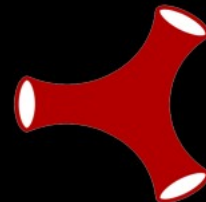
- Fundação para a Ciência e Tecnologia (FCT) through the grant CERN/FIS-PAR/0027/2021



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CIÊNCIAS E TECNOLOGIA
UNIVERSIDADE DE
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Fundação
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The University of Coimbra is one of the oldest universities in the world and was classified as World Heritage by the UNESCO in 2013. The University of Coimbra was founded in 1290.



João Carvalho
Director of the Department of Physics
University of Coimbra

	Opening of the conference	
	<i>Auditorium C.1</i>	09:20 - 09:30
10:00	The abundance of primordial black holes	<i>Cristiano Germani</i>
	<i>Auditorium C.1</i>	09:30 - 10:10
	Hubble-induced phase transitions and Higgs Vacuum Stability	<i>Dr Javier Rubio</i>
	<i>Auditorium C.1</i>	10:10 - 10:30
	Coffee break	10:30 - 11:00
11:00	Gravitational particle production and freeze-in at stronger coupling	<i>Oleg Lebedev</i>
	<i>Auditorium C.1</i>	11:00 - 11:40
	Neutron decay anomaly, dark matter and neutron stars	<i>Mar Bastero Gil</i>
	<i>Auditorium C.1</i>	11:40 - 12:00
12:00	Two-fluid formalism and phenomenology of the dark matter admixed neutron stars	<i>Oleksii Ivanytskyi</i>
	<i>Auditorium C.1</i>	12:00 - 12:20
13:00	Lunch	
14:00		12:20 - 14:30



**drinking water
fountain**

D floor

Lluís Bel Prize

- Lluís Bel Prize to the best talk delivered by a junior member of the SEGRE at the EREP2024

The prize consists of 300 euros and a diploma

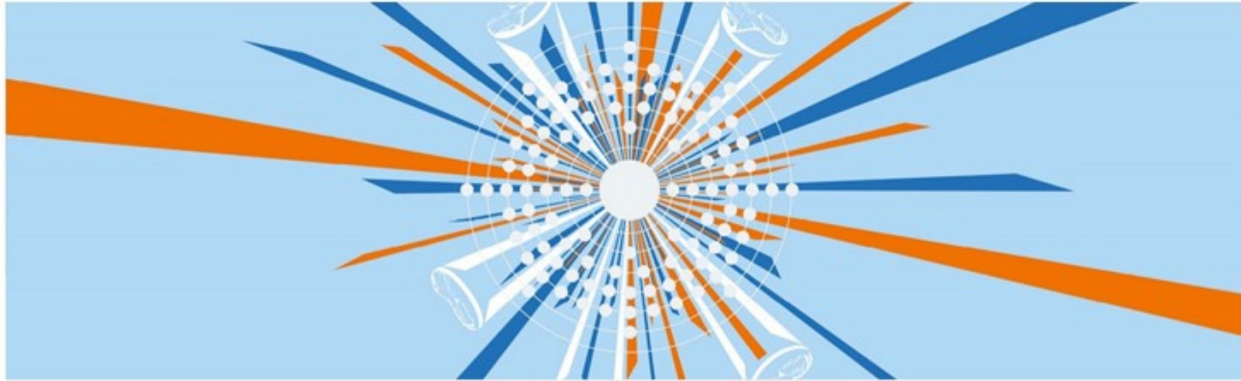
We remind those interested in applying for the Lluís Bel prize that they should send an e-mail to segre.info@gmail.com.



Three prizes sponsored by the journal General Relativity and Gravitation (Springer Nature)



springer.com



Spanish and Portuguese Relativity Meeting (EREP 2024)
Coimbra, 22 - 26 July 2024

Best Presentation Award

Best participant presentations

1st prize: 150 €

2nd prize: 100 €

3rd prize: 50 €

The winners of both awards will be announced in the closing session

Monday afternoon

16:00

Coffee break

16:00 - 16:30

17:00

Parallel session 3 (Cosmology II)

Auditorium E10A

16:30 - 17:45

Parallel session 4 (Black Holes I)

Auditorium E10B

16:30 - 17:45

18:00

Welcome reception

19:00

Loggia, Machado de Castro National Museum

18:30 - 20:00

20:00



WELCOME RECEPTION

Where: on the terrace of the Machado de Castro National Museum (2 min walk from the department)

When: Today, Monday July 22 at 18h30

Conference photo

Thursday, July 25 at 14h45

Conference photo

14:45 - 15:00





University of Coimbra Guided Tour

including the Royal Palace, the Great Hall of Acts, the Royal St. Michael's Chapel and the Joanina Library

Where: Paço das Escolas

When: Thursday, July 25, 15h00

Thursday afternoon

	Conference photo	14:45 - 15:00
15:00	University of Coimbra guided tour	
16:00		15:00 - 16:40
17:00	SEGRE General Assembly	
18:00		
19:00	<i>Auditorium C.1</i>	17:00 - 19:00



CONFERENCE DINNER

**Where: Quinta das Lágrimas
(30 min by foot from the department)**

When: Thursday, July 25, 20h00



CONFERENCE DINNER

Please be on time!

**SURPRISE
AT THE
BEGINNING!**

Read more about

the Machado de Castro National Museum, history of the University of Coimbra and Quinta das Lágrimas in

erep2024@uc.pt



Social Programme on indico

<https://indico.cern.ch/event/1346918/overview>

Ciência no RÓMULO

Edição Especial
EREP 2024

BURACOS NEGROS COMO BOLAS DE SABÃO

Óscar Dias

U. Southampton, UK



Entrada Livre



23 julho 2024 | 3.^a-feira | 18h15



RÓMULO UC | R/C Departamento de Física da FCTUC

Shen, et al. / APS | 2016 | <https://doi.org/10.1103/APS.3.DFD.2016.GFM.V00032>



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ADDP - Associação para o
Desenvolvimento do
Departamento de Física



RÓMULO

CENTRO DE CIÊNCIA
UNIVERSIDADE COIMBRA

Please, upload the presentation on the indico page 1h before the start of your session

A class of tilted cosmological solutions to the near equili... <i>Michael Bradley</i>	A preliminary study of PN1 cross terms contribution in t... <i>Prof. Màrius Josep Fullana i ...</i>
New parameterisations of Dark-Energy and applications t... <i>Artur Alho</i>	Black-hole ringdown and their progenitors: from numeric... <i>Constantino Pacilio</i>
Elastic interactions in the dark sector and massive neutri... <i>DAVID FIGUERUELO HERNÁN</i>	Improved Binary Black Hole Initial Data <i>João Rebelo</i> <i>Auditorium E10B</i> 15:00 - 15:15
Thermodynamics of the universes admitting isotropic rad... <i>Salvador Mengual Sendra</i>	Reference metrics on hyperboloidal slices for free evolut... <i>Alex Vano-Vinuales</i>
AXIALLY SYMMETRIC RELATIVISTIC THIN DISKS AND SP... <i>Guillermo A Gonzalez</i>	Electrically charged numerical simulations on hyperboloi... <i>João Álvares</i>
Archimedes Experiment: the Weight of Quantum Vacuum <i>Marina Esposito</i>	Hyperboloidal evolution in Numerical Relativity: the case... <i>Christian Peterson Bórquez</i>

TALKS

Internet connection

WiFi network: eduroam

Username: **erep_guest@uc**

Password: #Coimbra2024

LET US START

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