

WELCOME

TO THE INTERNATIONAL CONFERENCE

DARK MATTER AND STARS

Multi-Messenger Probes of Dark Matter and Modified Gravity

Center for Astrophysics and Gravitation (CENTRA)

Instituto Superior Técnico (IST) - University of Lisbon, Portugal

3 - 5 May 2023



icdms2023.tecnico.ulisboa.pt

indico.cern.ch/event/1194229

Ilídio Lopes

President of CENTRA, IST

PARTICIPATING INSTITUTIONS

- Instituto Superior Técnico, University of Lisbon, Portugal
- University of Coimbra, Portugal
- Goethe University Frankfurt, Germany
- Instituto Superior de Gestão, Portugal
- Frontera University, Chile
- Johns Hopkins University/Oxford University/Paris, Institute of Astrophysics, France

The conference is supported by

- FCT - Fundação para a Ciência e a Tecnologia through the grant CENTRA UIDB/00099/2020
- Collaborative Research Center Transregio 211 (**CRC-TR 211**)
- Research cluster **ELEMENTS**

HISTORY OF TECNICO

Founded on **23rd May 1911** by the Portuguese government (5 October 1910 Portuguese republican revolution);

Part of the University of Lisbon since 2013.

Ranked among the most productive engineering schools in Europe.

Offers undergraduate, graduate, and doctoral programs in Engineering, Science, and Technology fields.

Numbers: **1100** students and **900** faculty and researchers

LISBON

CASTELO DE S. JORGE
S. JORGE CASTLE



TORRE DE BELEM
BELEM TOWER



A stylized illustration of a cityscape at dusk or dawn. The sky transitions from a deep blue at the top to a warm orange and red near the horizon. In the foreground, dark silhouettes of buildings and rooftops are visible. On the left side, a prominent white dome with a smaller dome on top, resembling a classical building like a cathedral or university building, is highlighted with a soft glow. The overall aesthetic is clean and modern.

INTERNATIONAL WORKSHOP

DARK MATTER AND STARS

11 & 12 DECEMBER 2018

90 YEARS OF DARK MATTER

In 1933, Fritz Zwicky was the first to use the virial theorem to postulate the existence of unseen dark matter, describing it as "*dunkle Materie*"

Die Rotverschiebung von extragalaktischen Nebeln

von F. Zwicky.

(16. II. 33.)

Inhaltsangabe. Diese Arbeit gibt eine Darstellung der wesentlichsten Merkmale extragalaktischer Nebel, sowie der Methoden, welche zur Erforschung derselben gedient haben. Insbesondere wird die sog. Rotverschiebung extragalak-

INVITED SPEAKERS

Violetta Sagun
CFisUC, University of Coimbra



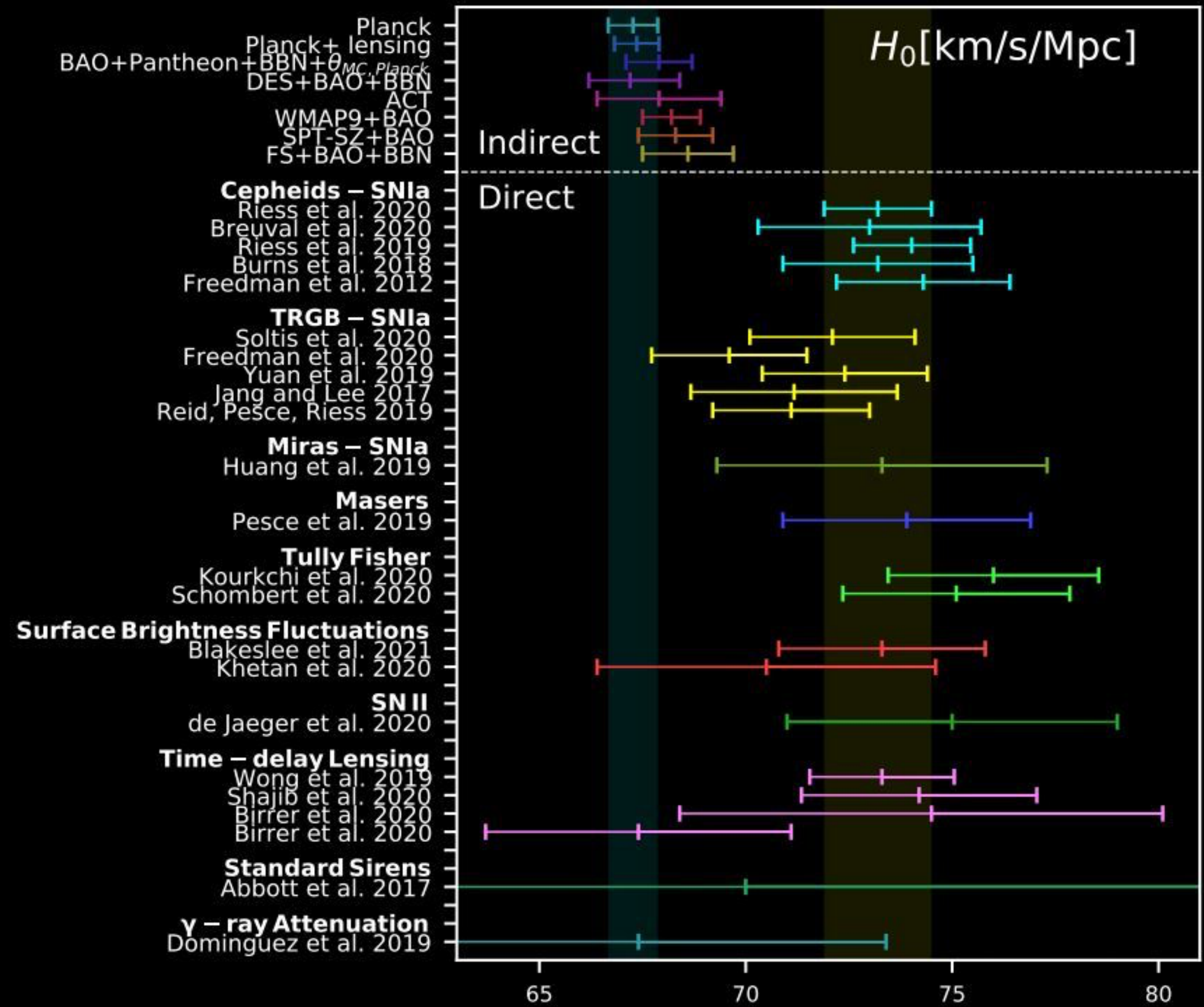
INVITED SPEAKERS



SEMINAR IN THE FRAMEWORK OF THE CONFERENCE

CHALLENGES TO THE STANDARD COSMOLOGICAL MODEL

3rd May 2023, 4:00PM
Centro de Congressos (-2 Floor of Civil Building)

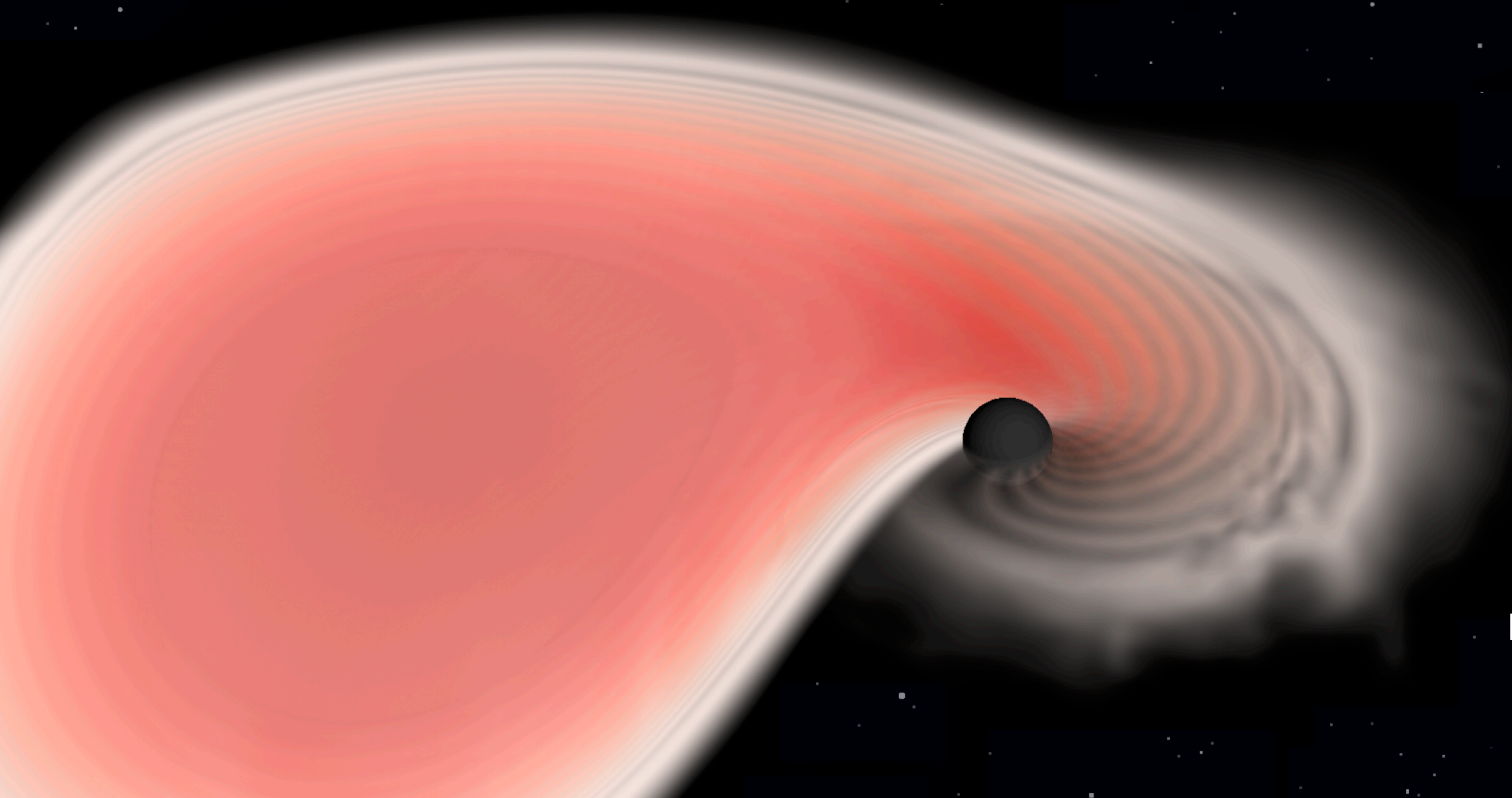


Prof. Eleonora di Valentino
University of Sheffield

SEMINAR IN THE FRAMEWORK OF THE CONFERENCE

SIMULATING BINARY NEUTRON STAR MERGERS: Implications for Multi-Messenger Astronomy and Dark Matter Searches

4th May 2023, 2:00PM
Centro de Congressos (-2 Floor of Civil Building)



Prof. Tim Dietrich
University of Potsdam
Max Planck Institute for Gravitational Physics
(Albert Einstein Institute)

CONFERENCE PICTURE

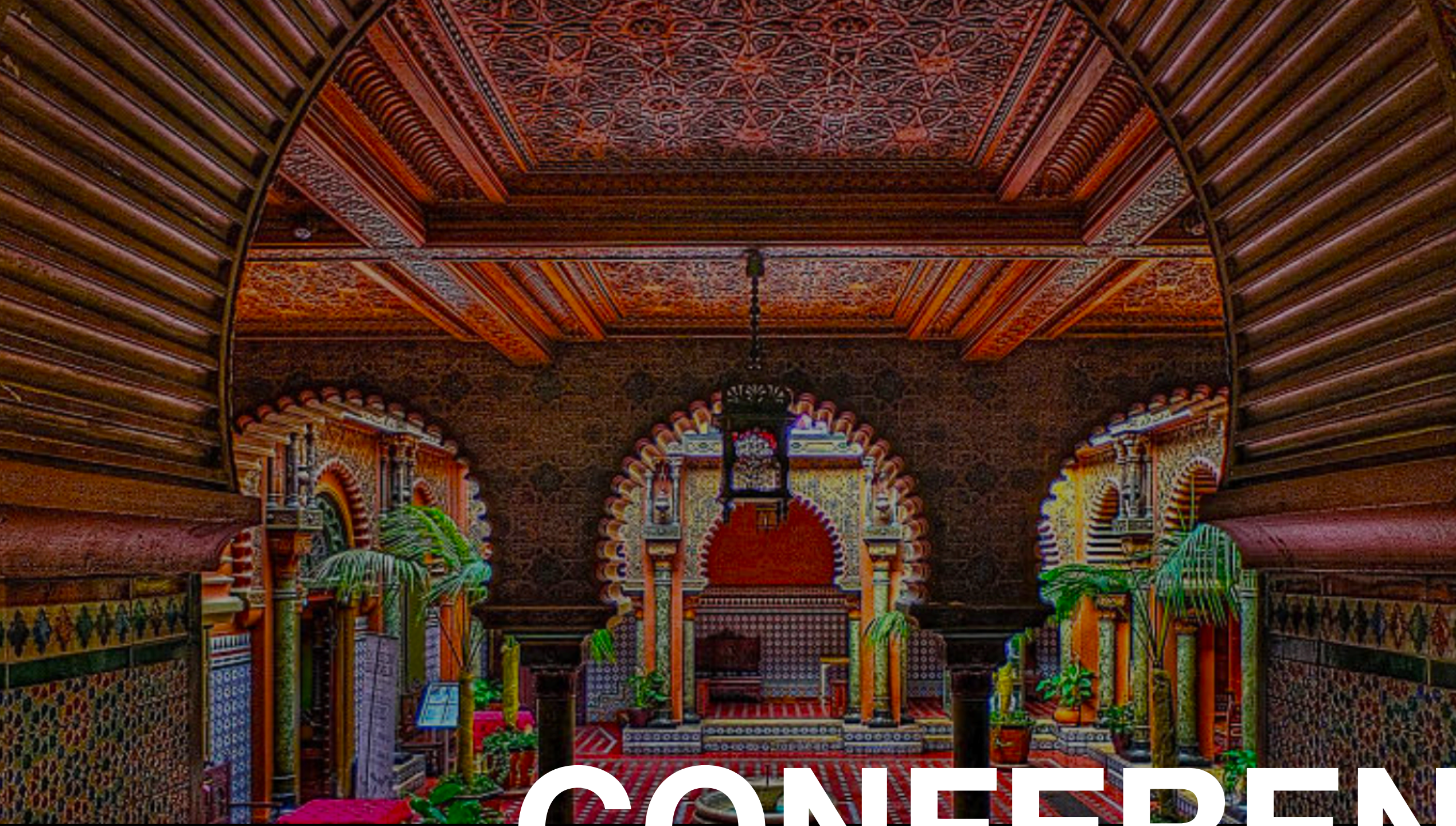
TOMORROW AT 12:25PM

Conference Photo

Centro de Congressos, Center for Astrophysics and Gravitation, Instituto Superior Técnico, University of Lisbon

12:25 - 12:35





CONFERENCE DINNER

Where: Casa do Alentejo

When: May 3rd, 8:00 PM

MAP OF SUGGESTED RESTAURANTS

INTERNATIONAL CONFERENCE
DARK MATTER AND STARS

ICDMS2023

INSTITUTO SUPERIOR
TÉCNICO



icdms2023.tecnico.ulisboa.pt

indico.cern.ch/event/1194229

LIST OF RESTAURANT

- 1 - The Green Affair 
- 2 - O Moises (Portuguese cuisine) 
- 3 - O Galeto (Brazilian cuisine) 
- 4 - Udon Noodles (Asian food) 
- 5 - Italian Republic (Italian food) 
- 6 - Restaurante À parte (Portuguese cuisine) 
- 7 - Restaurante Rialva (Portuguese cuisine) 
- 8 - Guida do Kizine (Korean) 
- 9 - Sopa Real (Udan cuisine) 
- 10 - Kokoro Ramen Bar (Japanese cuisine) 
- 11 - Rosé Stupa (Indian, Nepali cuisine) 

LEGEND

Fish

Meat

Vegetarian

 Vegan

 Gluten free

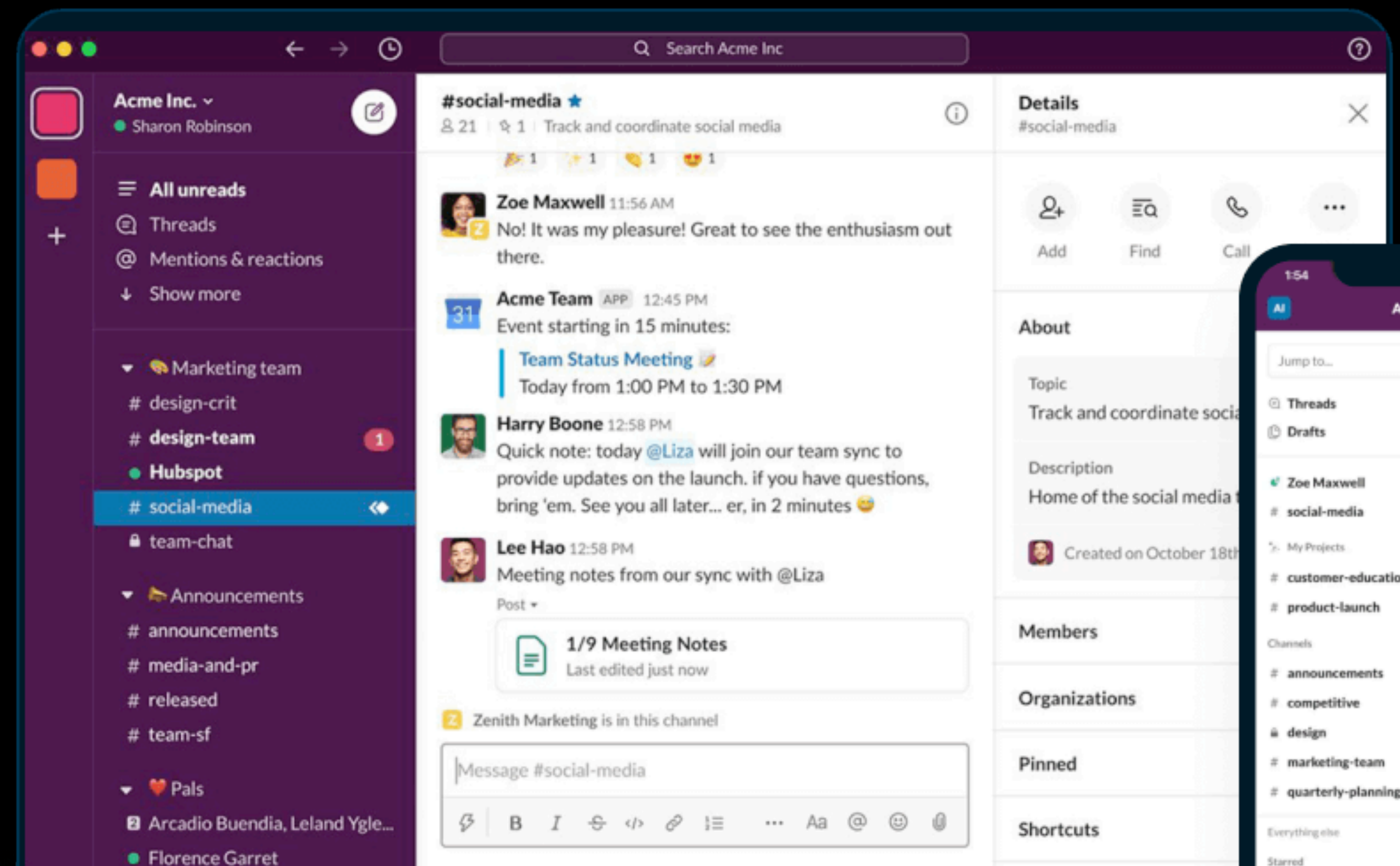
SLACK & TWITTER

#ICDMS2023



Slack for easy communication:

- Announcements
- Questions for speakers
- Posters
- Informal chat



Laura Sagunski
Goethe University Frankfurt

Please, upload the presentation on the indico page in advance.

Instructions in the #announcements channel on Slack

TALKS

Von dir gepinnt



Violetta Sagun 11:22 Uhr

@Channel Dear invited and contributed speakers,

Here is the guidance for uploading slides into the indico platform:

1. Log into indico.
2. Click on "My Contributions". (If "My Contributions" does not appear, the abstract may have been submitted by another indico user. Please contact the original submitter to upload your materials icdms2023@centra.tecnico.ulisboa.pt)
3. Your abstract title will appear.
4. After clicking on your abstract, at the bottom you will find the words "Presentation materials".
5. Select "Edit Materials" (the pencil sign on the r.h.s. of the "Presentation materials").
6. Click on "browse" and click on the file you want to upload.
7. Select slides as your material type.

BEST POSTER AWARD

- Poster session and welcome drinks: Thursday, May 4th, 5-6 pm
- 2 best poster awards: 210€ each
- Announcement during the closing session on **Friday**



Prof. Debarati Chatterjee
(Inter University Center for Astronomy
and Astrophysics, Pune, India)



Dr. Melissa Diamond
(Queen's University, Kingston, Canada)



Prof. Andrea Maselli
(Gran Sasso Institute, Italy)

LET US START DARK MATTER & STARS

#ICDMS2023