



Solvay Workshop on Gravitational Waves

19-21 February 2025, ULB - Campus Plaine - Building NO - 5th Floor - Solvay Room

WEDNESDAY 19 FEBRUARY

09:00 - 09:15 Registration

Chair: Samaya Nissanke

09:15 - 09:20 Opening and welcome speech by Samaya Nissanke

09:20 - 10:00 **Wendy Freedman**

10:00 - 10:40 **Julien Lesgourgues:** *Attempts to explain the Hubble tension with alternative cosmologies*

10:40 - 11:10 COFFEE BREAK

11:10 - 11:50 **Bernard Schutz:** *The Unexpected Discovery of Standard Sirens*

11:50 - 12:40 **Rachel Gray:** *Cosmology with Dark Sirens and Galaxy Catalogues: a review*

12:40 - 14:00 LUNCH BREAK

Chair: Alberto Mariotti

14:00 - 14:40 **Adam Riess**

14:40 - 15:20 **Dillon Brout:** *Precision Cosmology with Type Ia Supernovae*

15:20 - 15:50 COFFEE BREAK

15:50 - 17:00 **Panel 1: Hubble Tension (Chair: Licia Verde)**

THURSDAY 20 FEBRUARY

Chair: Geoffrey Compere

09:00 - 09:40 **Stefan Hild:** *Einstein Telescope's amazing sensitivity - and will we reach it?"*

09:40 - 10:20 **Archisman Ghosh:** *Gravitational-wave observations: from LIGO-Virgo-KAGRA towards the Einstein Telescope*

10:20 - 11:00 **Tanja Hinderer:** *Gravitational-wave source modeling using analytical relativity*

11:00 - 11:30 COFFEE BREAK

11:30 - 12:10 **Francois Foucart:** *Modeling merging neutron stars through numerical simulations*

12:10 - 12:50 **Sarah Antier:** *EM follow up of GW sources*

12:50 - 14:00 LUNCH

Chair: Alex Sevrin

14:00 – 14:40	Antonella Palmese: <i>Multimessenger measurements and prospects for cosmology with gravitational wave ground based detectors</i>
14:40 – 15:20	Justin Janquart: <i>Lensed gravitational wave to study the Universe</i>
15:20 – 15:50	COFFEE BREAK
15:50 – 16:30	Mairi Sakellariadou
16:30 – 17:10	Gabriele Franciolini
17:10 – 18:10	Lightening talks poster session
19:30 – 22:00	BANQUET (Les Petits Oignons, rue de la Régence, 25)

FRIDAY 21 FEBRUARY

Chair: Sébastien Clesse

09:00 – 09:40	Michael Kramer: <i>Opening a new GW frequency window with Pulsar Timing Arrays</i>
09:40 – 10:20	Chiara Mingarelli
10:20 – 11:00	Andrea Mitridate: <i>The nHz Gravitational Wave Background: evidence and open questions</i>
11:00 – 11:30	COFFEE BREAK
11:30 – 12:10	Chiara Caprini: <i>Cosmology with LISA: stochastic background and standard sirens</i>
12:10 – 12:50	James Alvey: <i>Machine Learning for Gravitational Waves: Challenges and Opportunities</i>
12:50 – 13:00	Group Photo
13:00 – 14:00	LUNCH
14:00 – 15:00	Panel 2: What Are We Missing? (Chairs: Bernard Schutz & Samaya Nissanke)
15:00	Closure of the Workshop

Coffee Breaks and Lunches:

- Coffee breaks will be provided for all attendees (in the hall adjacent to the conference room).
- Invited speakers and committee members will have lunch at the UAE restaurant on Wednesday, 19 February, and Thursday, 20 February.
- Participants who register through our website are required to arrange their own lunch on these days. (A cafeteria is available on campus, and several snack shops are within a 15-minute walk.)
- On Friday, 21 February, sandwiches will be provided for everyone (in the hall adjacent to the conference room).