

MaNiTou Summer School on Gravitational Waves

30 Jun–5 Jul 2025 - Marseille-Luminy

RINGDOWN

MERGER

RÉPUBLIQUE
FRANÇAISE
*Liberté
Égalité
Fraternité*

cnrs

cnes

cnrs

NUCLÉAIRE
& PARTICULES

cnrs

TERRE &
UNIVERS

ATCG

ATPEM
Atelier Théorique des Plasmas Exotiques et Multi-Messagers

GRAM

CPPM

CPT

LAM
LABORATOIRE D'ASTROPHYSIQUE
DE MARSEILLE

ARTEMIS

airap
astrophysique & planétologie

L2T

amU
Aix
Marseille
Université

FRANCE
2030

OBSERVATOIRE
DE LA CÔTE D'AZUR
UNIVERSITÉ CÔTE D'AZUR

UNIVERSITÉ
TOULOUSE III
PAUL SABATIER
Université de Toulouse

HANFORD, WASHINGTON
LIVINGSTON, LOUISIANA

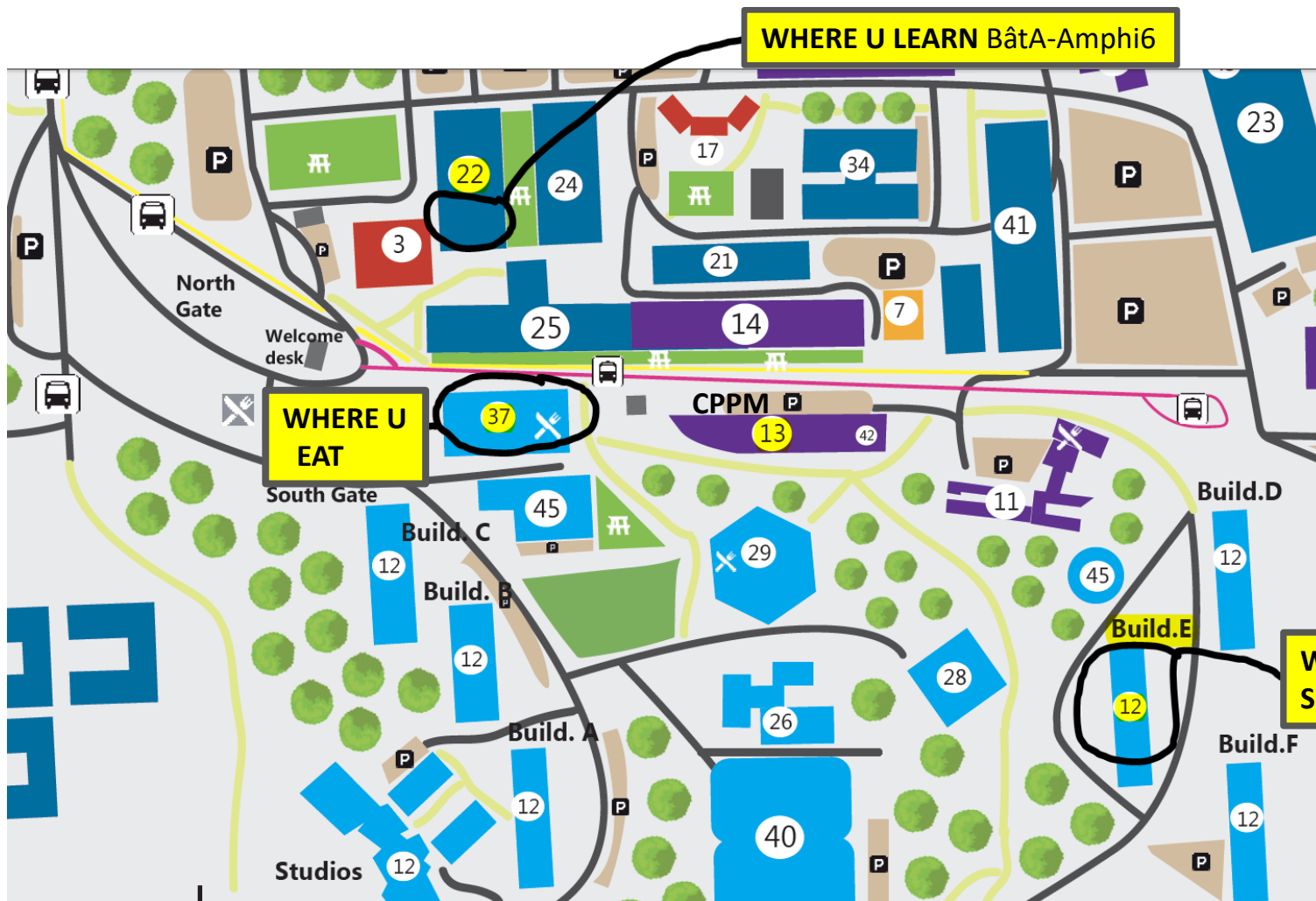


4th MaNiTou Summer School on Gravitational Waves

from Monday, June 30, 2025 (8:30 AM) to Saturday, July 5, 2025 (11:00 PM)

Monday, June 30, 2025	Tuesday, July 1, 2025	Wednesday, July 2, 2025	Thursday, July 3, 2025	Friday, July 4, 2025	Saturday, July 5, 2025
8:30 AM Welcome	8:30 AM Welcome	8:30 AM Welcome	8:30 AM Welcome	8:30 AM Welcome	8:30 AM Welcome
9:00 AM GW Theory - Part 1 - Simone Speziale (CPT Marseille, CNRS)	9:00 AM GW Theory - Part 3 - Simone Speziale (CPT Marseille, CNRS)	9:00 AM Hands on GW data - Part 2 - Sylvain Marsat (L2I Toulouse, CNRS/IN2P3, Université de Toulouse)	9:00 AM Ground-based GW interferometers and current observations - Part 2 - Walid Chaibi (CNRS)	9:00 AM PTA: introduction and detection principles - Joe Romano	9:00 AM Fundamental Physics with GWs - Mairi Sakellariadou
10:30 AM Coffee Break	10:30 AM Coffee Break	10:30 AM Coffee Break	10:30 AM Coffee Break	10:30 AM Coffee Break	10:30 AM Coffee Break
11:00 AM Introduction to GW data analysis - Part 1 - Frédérique MARION (LAPP)	11:00 AM Panorama of GW sources - Joe Romano	11:00 AM Ground-based GW interferometers and current observations - Part 1 - Walid Chaibi (CNRS)	11:00 AM Cosmology with GWs - Simone Mastrogiovanni (Astroparticule et cosmologie, Paris Diderot university)	11:00 AM PTA: stochastic background analysis - Joe Romano	11:00 AM Astrophysics - Astrid Lamberts (Observatoire de la Côte d'Azur)
12:30 PM Lunch Break	12:30 PM Lunch Break	12:30 PM Lunch Break	12:30 PM Lunch Break	12:30 PM Lunch Break	12:30 PM Wrap up
2:00 PM GW Theory - part 2 - Simone Speziale (CPT Marseille, CNRS)	1:30 PM GW Theory - Part 4 - Simone Speziale (CPT Marseille, CNRS)	1:30 PM Free Time	2:00 PM GWs in Southern France - Part 1	2:00 PM GWs in Southern France - Part 2	12:45 PM Lunch Break Buffet
4:00 PM Coffee Break	3:30 PM Coffee Break		2:30 PM GW and Nuclear Physics - Francesca GULMINELLI (LPC/Ensicaen)	2:30 PM Introduction to AI Techniques - Natalia Korsakova (APC)	
4:30 PM Hands on GW data - Part 1 - Sylvain Marsat (L2I Toulouse, CNRS/IN2P3, Université de Toulouse)	4:00 PM Introduction to GW data analysis - Part 2 - Frédérique MARION (LAPP)		4:00 PM Coffee Break	4:00 PM Coffee Break	
			4:30 PM Space-based GW detectors: LISA - Quentin Baghi (APC Université Paris Cité)	4:30 PM AI applications to GWs - Natalia Korsakova (APC)	

Who needs a computer for the hands-on sessions?



Mon – Fri:

Breakfast for those having a room on-site
Lunches for all

In CROUS cafeteria/restaurant

On Saturday:

Breakfast and lunch served in the
Salle Polyvalente next to Amphi6

Problem with your room:

There's a person 24/7 at the reception desk
at CROUS Building B: +33491411846; +33635669042

There's a night guard at Building E: +33635668973

Emergency numbers:

Police: 17, Fire brigade: 18, SAMU: 15

If you do not know what to do, call me: +33672074858

ROOMS @ CROUS

- **On Saturday morning**, when you come to class, bring your luggage and key with you to class. I will collect the keys to give them back to CROUS

WIFI

- Eduroam: you need to have an account
- (Aix*Marseille Université network: come see me if you need an access

COFFEE BREAKS

- They will be held in the **Salle Polyvalente** next to the Amphi 6

POSTERS

- We'll start displaying them tomorrow. Please, bring them tomorrow.

MaNiTou Book

- Nicola Tamanini (L2IT) is its editor in chief with contributions of the teachers of the previous editions of the school.
- Please read it and send us back your comments and feedback to make it better

Attendees Satisfaction Survey

- We will send it to you at the end of the school
- Please take part in it, it is very important to us and to improve the school next editions
- We're counting on you 😊

HIKING IN THE CALANQUES

This week, in addition to **Gravitational** Waves, we have here a **Heat** Wave as well 😊

- Know that, in France, unless specified otherwise, tap water is drinkable
You can also fill up your water bottle at the Cafeteria fountains
- if you are planning to go hiking in the Calanques, please:
 - Check the "Activities in the Calanques and in Marseille" section of the School web site before...
 - Make sure to protect you from the sun and to take enough water with you!
 - Take your phone with you and do not go alone

The organizers/teachers/speakers are wishing you an interesting and fruitful summer school!
Do not hesitate to interact with them or ask them questions; they are here for you 😊

ANY QUESTIONS ABOUT LOGISTICS

- Ask Nicolas or Eric

