

The Transient Universe 2023

Program of the Cargèse School



<https://indico.in2p3.fr/event/27295>

<https://transientuniverse2023.slack.com>

Tuesday 30 May 2023

Bus Transfer Ajaccio Airport to Cargèse

- Cosmic bus (51 persons): 14:45 Ajaccio – 16:00 Cargèse
- Minibus (8 persons): 18:30 Ajaccio – 19:45 Cargèse

- registration & Room assignment – on arrival of bus, 16:30
- Welcome Speech & Drink - (18:00-19:30)

Organizers (LOC):

SCHANNE Stéphane (dir, 30 May to 9 June)
BECKMANN, Volker (30 May to 9 June)
DAGONEAU Nicolas (30 May to 9 June)
GÖTZ, Diego (5-9 June)
VERGANI Susanna (1-6 June)

Wednesday 31 May 2023

→ Theory: Radiation Processes (1/2) - (08:45-10:15) - Lecturer: BELMONT, Renaud

Coffee break - (10:15-10:45)

→ Observations: AGN (1/2) - (10:45-12:15) - Lecturer: ZECH, Andreas

Lunch - (12:30-13:30)

Coffee break - (15:30-16:00)

→ Methods: Open and FAIR science - (16:00-17:30) - Lecturer: BECKMANN, Volker

→ Student Talks - (17:45 – 18:45)

Welcome Cocktail - (19:00-20:30)

Thursday 1 June 2023

→ Observations: AGN (2/2) - (08:45-10:15) - Lecturer: ZECH, Andreas

Coffee break - (10:15-10:45)

→ Theory: Radiation Processes (2/2) - (10:45-12:15) - Lecturer: BELMONT, Renaud

Lunch - (12:30-13:30)

Coffee break - (15:30-16:00)

→ Instruments: Neutrinos & Cosmics - (16:00-17:30) - Lecturer: CHEVALIER, Laurent

→ Student Talks - (17:45 – 18:45)

Friday 2 June 2023

→ Theory: Acceleration processes (1/2) - (08:45-10:15) - Lecturer: CRISTOFARI, Pierre

Coffee break - (10:15-10:45)

→ Theory: Gravitation (1/2) - (10:45-12:15) - Lecturer: DVORKIN, Irina

Lunch - (12:30-13:30)

Coffee break - (15:30-16:00)

→ Theory: Acceleration processes (2/2) - (16:00-17:30) - Lecturer: CRISTOFARI, Pierre

→ Methods: Software dev in python - (17:45-19:15) - Lecturer: DAGONEAU, Nicolas

Saturday 3 June 2023

→ Theory: Gravitation (2/2) - (8:45-10:15) - Lecturer: DVORKIN, Irina

Coffee break - (10:15-10:45)

→ Observation: Gravitational Waves - (10:45-12:15) - Lecturer: BRANCHESI, Marica

Lunch - (12:30-13:30)

Free Afternoon (or practical software session if desired)

Sunday 4 June 2023

Choices:

- Freetime (lazy, beach time, walking around Cargèse)
- Hiking excursion starting in Cargèse (good shoes needed)
- Bus excursion (9:00 – 17:00): Aitone, Col de Vergio, Gorges Spelunca, Piana, Calanques

The bus excursion is limited to 54 places available in the bus maximum (subscription at the beginning of the School in the limit of the number of available places).

Take your own picnic for the day (no lunch served).

Monday 5 June 2023

→ Theory: Gamma-ray bursts (1/2) - (08:45-10:15) - Lecturer: DAIGNE, Frédéric

Coffee break - (10:15-10:45)

→ Observation: radio-astronomy - (10:45-12:15) - Lecturer: FENDER, Robert

Lunch - (12:30-13:30)

Coffee break - (15:30-16:00)

→ Theory & Obs.: Gamma-ray bursts (2/2) - (16:00-17:30) - Lecturer: DAIGNE, Frédéric

→ Student Talks - (17:45 – 18:45)

Tuesday 6 June 2023

→ Instrum.: SVOM mission & trigger - (08:45-10:15) - Lecturer: SCHANNE, Stéphane

Coffee break - (10:15-10:45)

→ Instrum.: SVOM ground follow-up - (10:45-12:15) - Lecturer: VERGANI, Susanna

Lunch - (12:30-13:30)

Coffee break - (15:30-16:00)

→ Instrum.: SVOM onboard follow-up - (16:00-17:30) - Lecturer: GÖTZ, Diego

→ Student Talks - (17:45 – 18:45)

→ Public lecture (in French): neutron star mergers, light and gravitational waves (19:00 – 20:00) - Lecturer: DAIGNE, Frédéric

Titre : Quand deux étoiles à neutrons se rejoignent : ondes gravitationnelles et lumière

Résumé : La fusion de deux étoiles à neutrons est un phénomène rare mais particulièrement extrême, qui s'accompagne d'une intense émission d'ondes gravitationnelles (que l'on sait détecter depuis 2015) et de nombreux signaux lumineux, des ondes radio aux domaines infrarouge et visible et aux rayons X et gamma. Croiser ces différents signaux qui apportent des informations très complémentaires constitue une nouvelle approche très prometteuse en astrophysique. Cet exposé décrira l'émergence de cette nouvelle astrophysique multi-messagers, en particulier à travers l'exemple d'un événement exceptionnel observé en 2017.

Wednesday 7 June 2023

→ Theory: Accretion processes - (08:45-10:15) - Lecturer: WILMS, Jörn

Coffee break - (10:15-10:45)

→ Objects: neutrons stars - (10:45-12:15) - Lecturer: GUILLOT, Sébastien

Lunch - (12:30-13:30)

Coffee break - (15:30-16:00)

→ Objects: X-ray binaries (1/2) - (16:00-17:30) - Lecturer: GRINBERG, Victoria

→ Student Talks - (17:45 – 18:45)

Thursday 8 June 2023

→ Instrum.: X-ray spectroscopy - (08:45-10:15) - Lecturer: WILMS, Jörn

Coffee break - (10:15-10:45)

→ Objects: X-ray binaries (2/2) - (10:45-12:15) - Lecturer: GRINBERG, Victoria

Lunch - (12:30-13:30)

Coffee break - (15:30-16:00)

→ Student Talks - (16:00 – 17:30)

→ Student Talks - (17:45 – 18:45)

Social Dinner, barbecue offered at the institute - (19:00-20:30)

Friday 9 June 2023

LEAVE ROOMS BEFORE 8:45 - bring your luggage to the Institute, ready for the bus!

→ Instrum.: Optical transients, LSST - (08:45-10:15) - Lecturer: TURPIN, Damien

Coffee break - (10:15-10:45)

→ Instrum.: SVOM Bust advocates demo - (10:45-11:30) - Lecturer: TURPIN, Damien

Lunch box provided by the institute

Bus transfer to Airport - (11:45-12:45) – ready to catch the plane at 14:10