

Wednesday 25

- 08:30 - 09:00 *Breakfast*
- 09:00 - 10:30 **Session Q properties of BH/Tests of gravity with cosmological probes –**
Chair: Philippe Jetzer
- 09:00 - 09:45 Dark energy and cosmological models - Alessandra Silvestri
- 09:45 - 10:30 Quantum properties of black holes - Elizabeth Winstanley
- 10:30 - 11:00 *Coffee break*
- 11:00 - 12:25 **Session Q properties of BH/Tests of gravity with cosmological probes –**
Chair: Philippe Jetzer
- 11:00 - 11:45 H_0 tension - Walter Del Pozzo
- 11:45 - 12:05 Probing the post-merger phase of a BBH coalescence - Andrea Miani
- 12:05 - 12:25 Multipole moments of fast rotating boson stars as probes of scalar interactions –
Massimo Vaglio
- 12:30 - 13:50 *Lunch*
- 13:50 - 14:10 **Session Q properties of BH/Tests of gravity with cosmological probes –**
Philippe Jetzer
- 13:50 - 14:10 Inference of the Hubble constant with the cross-correlation measurements - Bera Sayantani
- 14:15 - 15:40 **Round Table – Tests of gravity with cosmological probes**
Nicolas Sanchis-Gual, Alessandra Silvestri, Jose Antonio Font, Mairi Sakellariadou
- 15:40 - 16:00 *Refreshment*
- 16:05 - 22:00 **Visit of the Observatory - Visit, cocktail and diner**

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Local organizing committee :

Nelson Christensen (Artemis)

Contact Secrétariat : Seyna : 07 81 58 27 05 - 04 92 00 31 86 - Observatoire de la Côte d'Azur – UMR7250-ARTEMIS - NICE

SCIENTIFIC ORGANISING COMMITTEE

Mairi Sakellariadou – King's College London
Nelson Christensen – Observatoire de la Côte d'Azur, Nice
Karsten Danzmann – Max Planck Institute, Hannover
Jose Antonio Font Roda – University of Valencia
Philippe Jetzer – University of Zurich
Renate Loll – Radboud University Nijmegen
Jürgen Müller – University of Hannover
Alena Pravdova – Institute of Mathematics, Prague
Fulvio Ricci – University of Rome Sapienza
Stefano Vitale – University of Trento
David Wands – University of Portsmouth

Local Committee

Nelson Christensen, Gilles Bogaert, Bertrand Chauvineau, Gilles Metris, Seynabou NDiaye



THIRD EUROPEAN PHYSICAL SOCIETY CONFERENCE ON GRAVITATION

CONFERENCE IN NICE (FRANCE)

23 – 25 MAY 2022

CONTACT

3epsqpd@sciencesconf.org

INFORMATION ET INSCRIPTIONS

<https://3epsqpd.sciencesconf.org>

Monday 23

- 08:30 - 08:55 *Breakfast*
- 08:55 - 09:05 **Welcome Participants** - Mairi Sakellariadou
- 09:05 - 10:30 **Session Mathematical relativity/Q gravity/Strings** - Chair: Mairi Sakellariadou
- 09:05 - 09:50 Mathematical relativity: going beyond GR - Piotr Chrusciel
- 09:50 - 10:35 Asymptotic symmetries and conserved charges in gravity - Glenn Barnich
- 10:35 - 11:00 *Coffee break*
- 11:00 - 12:20 **Session Mathematical relativity/Q gravity/Strings** - Chair: Mairi Sakellariadou
- 11:00 - 11:45 Q gravity and random geometry - Timothy Budd
- 11:45 - 12:30 Gravity as a quantum field theory - Roberto Percacci
- 12:30 - 13:50 *Lunch*
- 13:50 - 14:30 **Session Mathematical relativity/Q gravity/Strings** - Chair: Glenn Barnish
- 13:50 - 14:10 Asymptotic quasinormal modes - Filipe Moura
- 14:10 - 14:30 Q Ricci curvature in action - Brunekreef Joren
- 14:30 - 15:10 **Session Q gravity phenomenology/Foundations of gravity** - Chair: Glenn Barnish
- 14:30 - 14:50 Understanding deviations from classicality in gravity - Federico Piazza
- 14:50 - 15:10 Seeds for cosmic structure from Planckian discreteness - Alejandro Perez
- 15:10 - 15:40 *refreshment*
- 15:40 - 16:25 **Session Mathematical relativity/Q gravity/Strings** - Chair: Glenn Barnish
- 15:40 - 16:25 String theory: an approach to Q gravity - Niels Obers
- 16:30 - 18:00 **Round Table - Future of Quantum gravity**
Niels Obers, Roberto Percacci, Alejandro Perez, Glenn Barnich, Renate Loll
- 18:00 - 19:00 **Poster session & Cocktail**

Tuesday 24

- 08:30 - 09:00 *Breakfast*
- 09:00 - 10:30 **Session Q gravity phenomenology/Foundations of gravity** - Chair: Niels Obers
- 09:00 - 09:45 Foundations of gravity - Domenico Giulini
- 09:45 - 10:30 Unruh-De Witt detectors - Jorma Louko
- 10:30 - 10:55 *Coffee break*
- 10:55 - 12:40 **Session Q properties of BH/Tests of gravity with cosmological probes** –
Chair: Niels Obers
- 10:55 - 11:40 Exotic compact objects and Q-gravity - Nicolas Sanchis-Gual
- 11:40 - 12:00 Gravitational-wave cosmology with dark sirens - Mancarella Michele
- 12:00 - 12:20 Primordial BH - Romero-Rodriguez Alba
- 12:20 - 12:40 Cosmology and fundamental physics with GRB's - Amati Lorenzo
- 12:40 - 14:00 *Lunch*
- 14:00 - 15:25 **Session Q gravity phenomenology/Foundations of gravity** - Chair: Roberto Percacci
- 14:00 - 14:45 Q-nature of gravity from table-top experiment - Charis Anastopoulos
- 14:45 - 15:05 Witnessing Quantum aspects of gravity via entanglement - Mazumdar Anupam
- 15:05 - 15:25 Quantum of action in entangled relativity - Olivier Minazzoli
- 15:25 - 15:45 *Refreshment*
- 15:45 - 16:30 **Session Q properties of BH/Tests of gravity with cosmological probes** –
Chair: Roberto Percacci
- 15:45 - 16:05 Tests of gravity on cosmological scales with bright standard sirens –
Simone Mastrogiovanni
- 16:05 - 16:25 GW190521: Search for Echoes due to Stimulated Hawking Radiation from Black Holes –
Abedi Jahed
- 16:30 - 18:00 **Round Table - Foundations of gravity**
Charis Anastopoulos, Domenico Giulini, Anupam Mazumdar, Piotr Chrusciel, Elizabeth Winstanley