

VI Amazonian Workshop on Black Holes and Analogue Models of Gravity

June 10th - 14th 2019
Federal University of Pará



The Amazonian Workshop on Black Holes and Analogue Models of Gravity is an introductory to mid-level meeting intended to be regularly held by the Graduate Program in Physics at the Pará University.

The Amazonian Workshop on Black Holes and Analogue Models of Gravity is targeted for young researchers and graduate students in Physics, as well as for last-year undergraduate students, wishing to quickly learn advanced topics in General Relativity and Analogue Models of Gravity from some of the world's experts.

The VI Amazonian Workshop on Black Holes and Analogue Models of Gravity will be held in the Belém Campus of the Federal University of Pará. In the gateway to Amazonia, the Belém Campus is located on the shore of the river Guamá, one of the rivers which form the Guajará bay.

Schedule	Mon (10/06)	Tue (11/06)	Wed (12/06)	Thu (13/06)	Fri (14/06)
09:00-09:30	Opening Session	Oral Communications	x	Oral Communications	x
09:30-10:00	S1	S5	S9	S11	S15
10:00-10:30	S1	S5	S9	S11	S15
10:30-11:00	x	x	x	x	S16
11:00-11:30	S2	S6	S10	S12	S16
11:30-12:00	S2	S6	S10	S12	Closing Session
12:00-15:00	x	x	x	x	
15:00-15:30	S3	S7	Discussion Session	S13	
15:30-16:00	S3	S7	Discussion Session	S13	
16:00-16:30	S4	S8	Discussion Session	S14	
16:30-17:00	S4	S8	Discussion Session	S14	
17:00-18:00	Discussion Session	Discussion Session	Discussion Session	Discussion Session	

Oral Communications:

- Oral Communication (OC1):** "Black Hole Thermodynamics in Lorentz Symmetry Breaking Scenarios" - Débora Aguiar Gomes (Universidade Federal do Ceará, Brazil).
- Oral Communication (OC2):** "Test particle trajectories in Reissner-Nordström spacetime" - João Paulo Bessa Brito (Universidade Federal do Pará, Brazil)
- Oral Communication (OC3):** "Spherical photon orbits around a rotating black hole" - Sérgio Vinicius Monteiro Castelo Branco Xavier (Universidade Federal do Pará, Brazil)
- Oral Communication (OC4):** "On-Axis Tidal Forces in Kerr Spacetime" - Haroldo Cilas Duarte Lima Junior (Universidade Federal do Pará, Brazil)

Seminars:

- Seminar (S1):** "Particle creation, quantum anomalies, and gravity" - José Navarro-Salas (Universitat de València, Spain)
- Seminar (S2):** "Current status of gravitational wave astronomy with LIGO and Virgo" - Alicia Magdalena Sintes Olives (Universitat de les Illes Balears, Spain)
- Seminar (S3):** "Black holes with surrounding matter and rainbow scattering" - Luiz Carlos dos Santos Leite (Universidade Federal do Pará, Brazil).
- Seminar (S4):** "Massive and charged scalar field in Kerr-Newman spacetime: Absorption and superradiance" - Carolina Loureiro Benone (Universidade Federal do Pará, Brazil).
- Seminar (S5):** "Some Compact Objects in Ricci-Based Gravity Theories" - Gonzalo Jesus Olmo Alba (Universitat de València, Spain).
- Seminar (S6):** "Superradiance and Lense-Thirring Precession in Acoustic Black Hole Analogues" - Parthasarathi Majumdar (Ramakrishna Mission Vivekananda University, India)
- Seminar (S7):** "Absorption by black hole remnants in metric-affine gravity" - Caio Filipe Bezerra Macedo (Universidade Federal do Pará, Brazil)
- Seminar (S8):** "Scalar radiation from a source rotating around a regular black hole" - Rafael Pinto Bernar (Universidade Federal do Maranhão, Brazil)
- Seminar (S9):** "Finsler spaces and analogue gravity" - Alberto Vazquez Saa (Universidade Estadual de Campinas, Brazil)
- Seminar (S10):** "Scattering of surface waves on an analogue black hole" - Scott James Robertson (Université Paris-Saclay, France)
- Seminar (S11):** "Electromagnetic & Proca fields on rotating black holes" - Samuel Richard Dolan (Sheffield University, United Kingdom).
- Seminar (S12):** "Scale hierarchies and supersymmetric cosmology" - Ignatios Antoniadis (Sorbonne University, France & Universität Bern, Switzerland)
- Seminar (S13):** "Light ring stability in ultra-compact objects" - Pedro Vieira Cunha (Universidade de Aveiro, Portugal).
- Seminar (S14):** "Effective stability against superradiance of Kerr black holes with synchronised hair"- Juan Carlos Degollado Daza (Universidad Nacional Autónoma de México, México)
- Seminar (S15):** "Geometrothermodynamics of Black Holes" - Hernando Quevedo Cubillos (Universidad Nacional Autónoma de México, México)
- Seminar (S16):** "Rotational superradiant scattering in a vortex flow" - Maurício Richartz (Universidade Federal do ABC, Brazil)

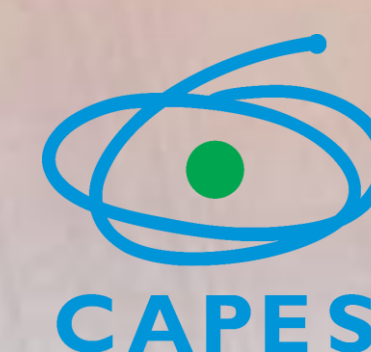
Organizing Committee:

- Alberto Vazquez Saa – Universidade de Campinas, Brazil
- Atsushi Higuchi - The University of York, United Kingdom
- Carlos Alberto Ruivo Herdeiro - Universidade de Aveiro, Portugal
- Luís Carlos Bassalo Crispino - Universidade Federal do Pará, Brazil

Realization:



Sponsors:



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