

Welcome to

Mathematical Physics of Gravity and Symmetry

June 23-26, 2025



	Monday 23	Tuesday 24	Wednesday 25	Thursday 26
9h15	Opening words			
9h30	Suddhasattwa Brahma <i>Emergent cosmological spacetime from matrix models</i>	Marios Petropoulos <i>Carrollian momenta from anti de Sitter</i>	Jose Luis Jaramillo <i>Simplicity and universality in binary black hole mergers: From caustics-diffraction to integrability</i>	Jahanur Hoque <i>Debate on quadrupole formula in de Sitter</i>
10h30	Coffee break	Coffee break	Coffee break	Coffee break
11h	Yuki Yokokura <i>Aspects of spherically-symmetric spacetime towards gravity-matter interaction</i>	Wolfgang Wieland <i>Boundedness of gravitational wave luminosity from non-perturbative quantum effects of gravity</i>	Silvia Nagy <i>Lessons from the self-dual sector</i>	Quentin Vigneron <i>Topology-dependent background connection in gravitation: Motivations and consequences for cosmology</i>
12h	Lunch	Lunch	Lunch	Lunch
14h	Adolfo Cisterna <i>Lie point symmetries in electrovacuum: New type I spacetimes in Einstein theory</i>	Adrien Fiorucci <i>Holographic derivation of BMS flux-balance laws</i>	Antoine Rignon-Bret <i>Black hole free energy</i>	Céline Zwickel <i>Celestial symmetries of black hole horizons</i>
15h	Coffee break	Coffee break	Coffee break	Coffee break
15h30	Clara Montagnon <i>Test-field vs physical quasi-normal modes of a modified BH solution</i>	Manuel Del Piano <i>An effective metric description of quantum black holes</i>	Corentin Vitel <i>Integrability aspects of perturbed black holes: a Lax pair hyperboloidal approach</i>	Bernard Raffaelli <i>A Weyl law for black hole quasinormal modes</i>
16h	Antoine Vincenti <i>Asymptotically-flat spacetimes with twist</i>	Johann Chevrier <i>Local unitary invariant polynomials in the limit of large dimension</i>	Valentine Maris <i>TBA</i>	
16h30	Simon Iteanu <i>Axial perturbations of black holes with primary scalar hair</i>	Aymeric Proust <i>Scale separation on AdS3 x S3 with and without supersymmetry</i>		
19h30	welcome cocktail	Banquet		