NEB-21

Monday 1 September 2025

Morning: Gravitational Waves (09:00 - 10:40)

-Conveners: THEOCHARIS APOSTOLATOS

time [id] title	presenter	
09:00 [84] Gravitational Waves: A Decade of Exploring the Universe	Dr SINTES, Alicia	
09:50 [1] Spinning Black Holes in Binaries Observed with Gravitational Waves	CHATZIIOANNOU, Katerina	

Morning: Gravity (11:00 - 13:00)

-Conveners: Constantinos Skordis

time [id] title	presenter
11:00 [72] Causality with Gravity	Prof. DE RHAM, Claudia
11:50 [13] Penrose inequality for integral energy conditions	KONTOU, Eleni-Alexandra
12:25 [83] Gravitational waves in quadratic gravity	ANTONIOU, Georgios

NEB-21 / Programme Tuesday 2 September 2025

Tuesday 2 September 2025

Morning: Cosmology - Amphitheater 1 (09:00 - 10:40)

-Conveners: Fabrizio Canfora

time [id] title	presenter
09:00 [21] Extensions of General Relativity and cosmological dark matter	SKORDIS, Constantinos
09:50 [91] A f(R)esh look at the dynamics of modified gravity	Prof. DUNSBY, Peter

Morning: Cosmology - Amphitheater 1 (11:00 - 12:50)

-Conveners: Alicia Sintes

time	[id] title	presenter
11:00	[89] Secondary Gravitational Waves as probes of the early Universe and Gravity	TZEREFOS, Charalampos
11:35	[85] Cosmological Reconstructions with Neural Networks: From Data to Theory	DIALEKTOPOULOS, Konstantinos
12:10	[22] Some Constraints on Some Alternative Theories of Gravity	ABEBE, Amare
12:30	[9] Vector induced gravitational waves sourced by primordial magnetic fields	Dr PAPANIKOLAOU, Theodoros

Wednesday 3 September 2025

Morning: Gravitational Waves - Amphitheater 1 (09:00 - 10:40)

-Conveners: Vladimir Karas

time [id] title	presenter
09:00 [75] Self-force in hyperbolic scattering	Prof. BARACK, Leor
09:50 [96] From Algorithms to Astrophysics: Machine Learning in Gravitational Wave Astronomy	Prof. STERGIOULAS, Nikolaos

Morning: Gravitational Waves and Machine Learning - Amphitheater 1 (11:00 - 12:50)

-Conveners: Leor Barack

time	[id] title	presenter
11:00	[37] AresGW: Unveiling New Gravitational Wave Events with Machine Learning	Ms KOLONIARI, Alexandra Eleni
11:35	[10] Symphony of Spacetime: Tuning into EMRI resonances with LISA	Dr DESTOUNIS, Kyriakos
12:10	[18] Searching for gravitational waves in real LIGO noise using neural networks	ZELENKA, Ondřej
12:30	[52] Importance of Noise Filtering for Improving the False Alarm Rate in Gravitational Wave Events	KOURSOUMPA, Evdokia Chrysovalanti

Thursday 4 September 2025

Morning: Multimessenger Astronomy - Amphitheater 1 (09:00 - 10:40)

-Conveners: Nikolaos Stergioulas

time [id] title	presenter
09:00 [68] Extreme Tidal Disruption Events as probes of Nuclear Star Cluster	Prof. KARAS, Vladimir
09:50 [80] Modeling the strong-field dynamics of binary neutron stars	Prof. BERNUZZI, Sebastiano

Morning: Gravitational Waves & Neutron Stars - Amphitheater 1 (11:00 - 12:55)

-Conveners: Sebastiano Bernuzzi

time	[id] title	presenter
11:00	[103] 10 years of Gravitational-Wave Tests of GR	Dr AGATHOS, Michalis
11:35	[97] Resonance-induced eccentricity in spherical extreme-mass-ratio inspirals	Dr ELENI, Areti Prof. APOSTOLATOS, Theocharis
11:55	[60] Gravitational waves from a curvature-induced phase transition of a Higgs-portal dark matter sector	MANTZIRIS, Andreas
12:15	[8] Exploring Composition of Neutron Star Matter with Astrophysical Observations	CHAR, Prasanta
12:35	[55] Universal description of a neutron star's surface and its key global properties: A machine learning approach for nonrotating and rapidly rotating stellar models	Mr PAPIGKIOTIS, Grigorios