

NEB16 Program

1ST DAY – September 17

W E D N E S D A Y 17 S E P T E M B E R	9:00-9:15	<i>NEB16 Conference Inauguration</i>
	9.15-10.00	Bojowald Martin <i>Results and applications of canonical effective methods in quantum theories</i>
	10.00-10.45	Ferrari Valeria <i>Universal relations for neutron stars</i>
	10.45-11.05	Coffee break
	11.05-11.50	Rezzolla Luciano <i>Binary neutron stars: what we understand and what we don't</i>
	11.50-12.35	Bergshoeff Eric <i>New Developments in Three-Dimensional Gravity</i>
	12.35-15.00	Lunch Break
	SESSION A	
	15.00-15.30	Laguna Pablo <i>Learning about the final state in binary black hole mergers from the gravitational wave peak luminosity</i>
	15.30-16.00	Shoemaker Deirdre <i>Numerical Relativity's Preparation for Gravitational Wave Detection of BBHs</i>
	16.00-16.20	Bauswein Andreas <i>Revealing the high-density equation of state via gravitational-wave observations</i>
	16.20-16.40	Kucaba Marcin <i>Gravitational waves background from rotating neutron stars for Advanced Virgo/Ligo and ET detectors</i>
	16.40-17.10	Coffee break
	17.10-17.30	Buchman Sasha <i>Concepts for a gravitational wave antenna for 2020</i>
	17.30-17.50	Frajuca Carlos <i>The Schenberg GW detector vibration systems</i>
	17.50-18.10	Tsokaros Antonios <i>Binary neutron star initial data with COCAL</i>
	18.10-18.30	Agathos Mihalis <i>TIGER: A model-independent way of testing the strong-field dynamics of GR with gravitational waves</i>
	18.30-18.50	Dionysopoulou Kyriaki <i>General-Relativistic Resistive-MHD simulations of Binary Neutron Stars</i>
	18.50-19.10	Antoniadis John <i>Tests of Fundamental Physics with Binary Pulsars</i>
	SESSION B	
15.00-15.30	Plionis Manolis <i>Precision Cosmology using HII galaxies</i>	
15.30-16.00	Contopoulos Ioannis <i>"EDOHS" GRBs as potential Standard Candles for Cosmology</i>	

W E D N 17 S E P T	16.00-16.20	Frusciante Noemi <i>Effective Field Theory of Dark Energy: a Dynamical Analysis</i>
	16.20-16.40	Saltas Ippocratis <i>Scalar anisotropic stress as a signature of tensor wave propagation</i>
	16.40-17.10	Coffee break
	17.10-17.30	Magalhaes Nadja <i>General relativistic effects on the rotation curves of galaxies</i>
	17.30-17.50	Salgado Marcelo <i>$f(R)$ cosmology and the equation of state of geometric darkenergy</i>
	17.50-18.10	Grammenos Theofanis <i>On the energy of a Schwarzschild black hole surrounded by dark energy</i>
	18.10-18.30	Pouri Athina <i>Precision growth index using the clustering of cosmic structures and growth data</i>

2ND DAY – September 18

T H U R S D A Y 18 S E P T E M B E R	9.00-9.45	Lattimer James <i>Experimental, Observational and Theoretical Constraints on the Properties of Neutron Stars</i>
	9.45-10.30	Kalogera Vicky <i>Review of Astrophysics results from LIGO</i>
	10.30-15.30	Tour to Delos
	SESSION A	
	15.30-16.00	Gondek-Rosinska Dorota <i>A new view on differentially rotating neutron stars in GR</i>
	16.00-16.30	Yazadjiev Stoytcho <i>Neutron stars in modified gravity</i>
	16.30-16.50	Studzinska Anna <i>The effect of equation of state on properties of differentially rotating neutron stars in GR</i>
	16.50-17.10	Iosif Panagiotis <i>Accuracy of the IWM-CFC approximation in differentially rotating relativistic stars</i>
	17.10-17.40	Coffee break
	17.40-18.10	Sotani Hajime <i>Possible constraint on nuclear saturation parameters via neutron star observations</i>
	18.10-18.30	Doneva Daniela <i>f-mode instabilities in rapidly rotating neutron stars</i>
	SESSION B	
	15.30-15.50	Zarikas Vasilios <i>Cosmic coincidence problem and Galaxies</i>
	15.50-16.10	Pravda Vojtech <i>Universal spacetimes</i>
	16.10-16.30	Pravdova Alena <i>On the Goldberg-Sachs theorem in higher dimensions</i>
	16.30-16.50	Terzis Petros <i>Lie point and variational symmetries in minisuperspace Cosmology</i>
	16.50-17.40	Coffee break
	17.40-18.10	Batakis Nikolaos <i>First exact Geon found is a nonsingular monopole, propagating as a primordial gravitational pp-wave</i>
	18.10-18.40	Aliferis Georgios <i>Primordial black holes and efficient electroweakbaryogenesis with small CP angle</i>
	SESSION C	
	15.30-16.00	Christodoulakis Theodosios <i>Canonical Quantization of the Reissner-Noerdstrom geometry via Noether symmetries</i>
	16.00-16.30	Kanti Panagiota <i>Cosmological Solutions in Dilaton-Gauss-Bonnet Theory</i>

T H U R 18 S E P T	16.30-16.50	Coutant Antonin <i>Unitary and non-unitary transitions around a cosmological bounce</i>
	16.50-17.10	Pranzetti Daniele <i>CFT/gravity correspondence on the isolated horizon</i>
	17.10-17.40	Coffee break
	17.40-18.10	Zampeli Adamantia <i>Canonical quantisation of a scalar field in aRobertson-Walker background via conditional symmetries</i>
	18.10-18.30	Gomes Henrique <i>Conformal geometrodynamics regained: gravity from duality</i>
	18.30-18.50	Kanatchikov Igor <i>Pracanonical quantization approach to quantum gravity</i>

20.30- Dinner at St John's restaurant

3RD DAY – September 19

F R I D A Y 19	9.00-9.45	Lüst Dieter <i>Non-Associative Geometry and Double Field Theory</i>
	9.45-10.30	Pullin Jorge <i>Quantum field theory on a quantum space-time: Hawking radiation and the Casimir effect</i>
	10.30-10.50	Coffee break
	10.50-11.35	Shibata Masaru <i>Binary neutron star merger: Gravitational waves and electromagnetic counter parts</i>
	11.35-12.20	Barack Leor <i>Gravitational self-force: orbital mechanics beyond the geodesic approximation</i>
	12.20-15.00	Lunch Break
	SESSION A	
	15.00-15.20	Dzhunushaliev Vladimir <i>Modified $f(R)$ gravities from the quantum part of metric</i>
	15.20-15.40	Herdeiro Carlos <i>Kerr black holes with scalar hair</i>
	15.40-16.00	Vega Ian <i>Rotating black holes in three-dimensional Horava gravity</i>
S E P T E M B E R	16.00-16.20	Cvitan Maro <i>Gravitational Chern-Simons terms in $D>3$</i>
	16.20-16.40	Kofinas Georgios <i>Teleparallel equivalent of Gauss-Bonnet gravity</i>
	16.40-17.10	Coffee break
	17.10-17.30	Stein Leo <i>Rapidly rotating black holes in dynamical Chern-Simons gravity: Decoupling limit solutions and breakdown</i>
	17.30-17.50	Tsoukalas Minas <i>Bi-scalar Extensions of Horndeski Theories and Black Holes</i>
	17.50-18.10	Vernieri Daniele <i>Gravity with Auxiliary Fields</i>
	SESSION B	
	15.00-15.20	Martinez Cristian <i>Mass of asymptotically anti-de Sitter hairy spacetimes</i>
	15.20-15.40	Krueger Christian <i>Seismology of adolescent neutron stars: Accounting for thermal effects and crust elasticity</i>
	15.40-16.00	Wisniewicz Mateusz <i>Stability of orbits around rapidly rotating neutron stars in LMXBs</i>
16.00-16.20	Szkudlarek Magdalena <i>Numerical simulations of differentially rotating strange quark stars in GR</i>	
16.20-16.40	Cuadros-Melgar Bertha <i>Galileon Black Holes Stability Revisited</i>	

F R I D 19 S E P	16.40-17.10	Coffee break
	17.10-17.30	Kraniotis Georgios <i>Gravitational lensing and frame dragging of light in the Kerr-Newman and the Kerr-Newman-(anti) de Sitter black hole spacetimes</i>
	17.30-17.50	Astorino Marco <i>Pair creation of rotating black holes</i>
	17.50-18.10	Apostolatos Theocharis <i>I-Love-Q and other universalities about neutron stars</i>
	18.10-18.30	George Pappas <i>Why I-Love-Q</i>

Hellenic Society on Relativity, Gravitation, and Cosmology ELECTIONS 19:00-20:30

4TH DAY – September 20

S A T U R D A Y 20 S E P T E M B E R	9.00-9.45	Maggiore Michele <i>Nonlocal gravity and dark energy</i>
	9.45-10.30	Calder Alan <i>Thermonuclear Supernovae as Probes of Cosmology</i>
	10.30-10.50	Coffee break
	10.50-11.35	Sotiriou Thomas <i>Black holes and scalar fields</i>
	11.35-12.20	Oriti Daniele <i>Quantum gravity from the atoms of space to cosmology</i>
	12.20-15.00	Lunch Break
	SESSION A	
	15.00-15.30	Benedetti Dario <i>Condensation in Causal Dynamical Triangulations</i>
	15.30-15.50	Markakis Charalambos <i>Existence & uniqueness of constants of motion in stationary axisymmetric gravitational fields</i>
	15.50-16.10	Lukes-Gerakopoulos Georgios <i>The motion of spinning particles in Kerr spacetime</i>
SESSION B		
15.00-15.30	Immirzi Giorgio <i>Spinors in Spinfoamtheory</i>	
15.30-15.50	Willison Steven <i>Gravity as a theory of curved surface dynamics</i>	

POSTERS by:

Papadopoulos George: *Generation of Solutions of the Einstein Equations*

Palapanidis Konstantinos: *Equilibrium models of strongly-magnetized neutron stars*

END