

B2: NUMERICAL RELATIVITY

15:00-15:30	New vistas in the simulation of compact binary systems, Luis Lehner
15:30-15:45	Spectre - A New Discontinuous Galerkin Code For Solving General Relativistic Partial Differential Equations, Harald Pfeiffer
15:45-16:00	The Sxs Collaboration Catalog Of Binary Black Hole Simulations, Leo Stein
16:00-16:15	Exploring Precessing Binaries With Numerical Relativity, Mark Hannam
16:15-16:30	Posters

B2: NUMERICAL RELATIVITY

17:00-17:15	Numerical Relativity Methods For Cosmological N-Body Simulations, David Daverio
17:15-17:30	Cosmic Censorship And The Fate Of Spheroidal Collapse, William East
17:30-17:45	Numerical Simulations Of Spacetime Singularities, David Garfinkle
17:45-18:00	The Physics Of Black Hole Binaries: Geodesic Properties, Quasinormal Modes And Interaction With Fundamental Fields -- Part I, Miguel Zilhao
18:00-18:15	The Physics Of Black Hole Binaries: Geodesic Properties, Quasinormal Modes And Interaction With Fundamental Fields -- Part II, Taishi Ikeda
18:15-18:30	A Catalogue Of Multi-Mode Waveforms For Black-Hole Coalescence, Marta Colleoni
18:30-18:45	A Catalogue Of Multi-Mode Waveforms For Black-Hole Coalescence, Marta Colleoni



B1: RELATIVISTIC ASTROPHYSICS

15:00-15:30	Black Hole Accretion And Relativistic Jets, Ramesh Narayan
15:30-15:45	General-Relativistic Kinetic Plasma Simulations Of Black-Holes Magnetospheres And Jets, Kyle Parfrey
15:45-16:00	Power Of Magnetically Arrested Advective Accretion Flows To Explain Ulxs And Blazars, Branibrata Mukhopadhyay
16:00-16:15	Two-Temperature Advective Transonic Accretion Flows Around Black Holes, Silpha Sardar
16:15-16:30	Thin Accretion Disk Of Distorted Schwarzschild Black Hole, Shokoufe Faraji
Posters	Relativistic Wind Accretion Onto A Schwarzschild Black Hole, A. Aguayo-Ortiz
Posters	Evolution Equations Of Elastic Fluid In General Relativity, Mikael Normann

B1: RELATIVISTIC ASTROPHYSICS

17:00-17:15	Implications Of Event Horizon Telescope Observations For General Relativity, Accretion Physics And Jets, Roman Gold
17:15-17:30	Accretion In A Dynamical Kerr Spacetime And Spinning Up Of The Black Hole In Collapsar, Agnieszka Janiuk
17:30-17:45	Simulating Poynting Dominated Energy Flows Around Magnetars And Black Holes, Jens Florian Mahlman
17:45-18:00	Self-Gravitating Tori Around Black Holes, Patryk Mach
18:00-18:15	Choked Accretion: A Hydrodynamical Jet-Launching Mechanism, Alejandro Aguayo-Ortiz
18:15-18:30	Probing Near-Horizon Scales In General Relativistic Magnetohydrodynamics Simulations, R. Anantua
18:30-18:45	Magnetized Accretion Disks Around Kerr Black Holes With Scalar Hair, Sergio Gimeno-Soler
18:45-19:00	On The Possibilities Of Shocks In Relativistic Accretion And Wind Flows, Mondal Soumen



B3: APPROXIMATIONS, PERTURBATION THEORY, AND THEIR APPLICATIONS

15:00-15:30	Does Geometric Optics Depend On Geometry?, Abraham Harte
15:30-15:45	Perturbations Of Locally Rotationally Symmetric Cosmologies, Michael Bradley
15:45-16:00	A New Perspective On Gravitational Perturbations Of Spherically Symmetric Spacetimes, Andrzej Rostworowski
16:00-16:15	Revisiting Black-Hole Perturbation Theory: The Hyperboloidal Slice Approach, Rodrigo Panosso Macedo
16:15-16:30	Higher Order Perturbations Of The Reissner-Nordström Black Hole, Mieszko Rutkowski
Posters	Stability Of L-Boson Stars Under Linear Perturbations, Argelia Bernal
Posters	Filtering Condition For Some Of Viable Field Theories, Abd El Fady B. Morcos
Posters	Second-Order Self-Force Calculations: A Status Report, Adam Pound
Posters	Cosmological Perturbations In The Regge-Wheeler Formalism, Andrzej Rostworowski
Posters	The Geometry Of Small Causal Diamonds, Jinzhao Wang

C5: LISA AND OTHER SPACED BASED DETECTORS

17:00-17:15	Laser Ranging Interferometer On Grace Follow-On: Current Status, Fernandez Barranco, G
17:15-17:30	Optical Simulations For Space Interferometry, Gudrun Wanner
17:30-17:45	LISA Pathfinder Final Noise Performance: Effect Of Disturbances On The Low Frequency Noise And Projection To LISA, Castelli, E
17:45-18:00	Instrumental Noise Transients In LISA, Slutsky, J
18:00-18:15	Listening To Gravity With LISA From Incomplete Measurements: A Bayesian Data Augmentation Method, Baghi, Quentin
18:15-18:30	The Data And Diagnostics Subsystem For LISA, Nofrarias, M
18:30-18:45	Space+Ground Multiband Detections. How Many?, Gerosa, D



A1: EXACT SOLUTIONS AND THEIR INTERPRETATION

15:00-15:30	Solutions With A Geodesic, Single Weyl Pnd: From Vacuum To Aligned Einstein-Maxwell, Wylleman, L.
15:30-15:45	The Study of Non-expanding Plebański–Demiański Solutions, Hruska, O.
15:45-16:00	Gravitomagnetism in the Lewis cylindrical metrics, Costa, L. Filipe O.
16:00-16:15	Observational properties of the gamma metric, Malafarina Daniele
16:15-16:30	Round Null Surfaces In Kerr Space-Time, Argañaraz, M. A.

A1: EXACT SOLUTIONS AND THEIR INTERPRETATION

17:00-17:15	Spherical Black Holes In Quadratic Gravity: Bachian Generalization Of The Schwarzschild-(A)Ds Solution, Podolsky, Jiri
17:15-17:30	Spherically Symmetric Geometries In Quadratic Gravity: Field Equations, Explicit Spacetimes, Physical Interpretation, Svarc, R
17:30-17:45	Exact Almost Universal Solutions to Higher-Order Gravities, Martin Kuchynka
17:45-18:00	Ideal Characterization Of Cosmological And Black Hole Spacetimes, Khavkine, I.
18:00-18:15	Some New Exact Solutions Of Type D Admitting Maximal G_3 And G_4 , Ziad, Muhammad (Mz)
18:15-18:30	Projective invariance and the Schwarzschild solution, Olmo, Gonzalo J.
18:30-18:45	On The Integrability Of Einstein'S Equation And Killing Tensors, Batista, C.



C4: CONCEPTS AND RESEARCH FOR FUTURE DETECTORS

15:00-15:30	Room Temperature Optomechanical Squeezing, Nancy Aggarwal
15:30-15:45	Development Of A Dc Adaptive Actuator For Optical Aberration Correction In Future Gravitational Wave Detectors, Lorenzo Aiello
15:45-16:00	Optomechanical Accelerometers In High Qg, John Carter
16:00-16:15	Measurement Of Thermal Noise In A Solid In Non-Equilibrium Steady States, Giacomo Ciani
16:15-16:30	Next Challenges In Gravitational Wave Astronomy, David Blair

C4: CONCEPTS AND RESEARCH FOR FUTURE DETECTORS

17:00-17:30	Prospects For Measuring Neutron Star Equation Of State Using Gravitational Waves, Denis Martynov
17:30-17:45	Pre-Stabilized Laser System At A Wavelength Of 1550nm For Future Gravitational-Wave Detectors, Fabian Meylahn
17:45-18:00	Cancellation Of Gravity Noise In Underground Detectors, Francesca Badaracco
18:00-18:15	Molecular Adsorbed Layer Formation On Cooled Mirrors And Its Impacts On Cryogenic Gravitational Wave Telescopes, Kunihiko Hasegawa
18:15-18:30	Quantum Back Action Cancellation In The Audio Band, John Cripe



C9: EXPERIMENTAL GRAVITATION

15:00-15:30	Determination of the Newtonian Gravitational Constant G with Angular-Acceleration-Feedback Method, Xue, Chao
15:30-15:45	Microscope: A Test Of Equivalence Principle On The Way To Final Results, Rodrigues, M
15:45-16:00	Analyzing Lorentz Violation With Short-Range Gravitational Experiments, Shao, Chenggang
16:00-16:15	Time-Delay Interferometry: Challenges To Modeling And Simulating Instrumental Imperfections For LISA, Bayle J.-B.
16:15-16:30	Posters

C9: EXPERIMENTAL GRAVITATION

17:00-17:30	Testing General Relativistic Clock Effects In The Vicinity Of The Earth, Laemmerzahl, Claus
17:30-17:45	Space-Time Approach To Locomotion In Deformable Environments, Laguna, Pablo
17:45-18:00	Can Mond Explain The Data Scattering Of "Big G"?, Klein, Norbert
18:00-18:15	The Experiment Of Gravitational Mass Defect, Dong Jiang
18:15-18:30	Quantum Entanglement Witness Of Quantum Gravity, Mazumdar, Anupam



C8: EDUCATION AND PUBLIC OUTREACH ON GRAVITATIONAL WAVE ASTRONOMY

15:00-15:30	Education And Public Outreach Activities Of The LIGO Scientific Collaboration, Keitel, David
15:30-15:45	Summary Of Virgo Outreach Activities, Conti, Livia
15:45-16:00	An Overview On The Outreach Activities In The Virgo Group In Valencia, Cordero-Carrión, Isabel
16:00-16:15	Training Ambassadors For High Impact Outreach, Williamson, Kathryn
16:15-16:16	Posters A New Gravitational Wave Lecture-Tutorial For "Astro 101", Williamson, Kathryn

C8: EDUCATION AND PUBLIC OUTREACH ON GRAVITATIONAL WAVE ASTRONOMY

17:00-17:30	Bringing General Relativity To Upper Secondary Schools: Design And Evaluation Of A Digital Learning Environment, Kersting, Magdalena
17:30-17:45	Ozgrav Public Outreach Virtual And Mixed Reality Toolkits, Bailes, Matthew
17:45-18:00	Playing With Gravitational Wave Detectors: Exhibits And Apps For Public Engagement With Gravitational Wave Research, Gettings, Conner
18:00-18:15	Improving The Black Hole Hunter Educational Game For The Advanced Detector Era, Mcisaac, Connor



D4: QUANTUM FIELDS IN CURVED SPACE-TIME, SEMICLASSICAL GRAVITY, QUANTUM GRAVITY PHENOMENOLOGY, AND THEORETICAL ASPECTS OF ANALOGUE GRAVITY

15:00-15:15	A Perturbative Perspective On Self-Supporting Wormholes, Brianna Grado-White
15:15-15:30	Quantum Memory For Rindler Supertranslations, Sanved Kolekar
15:30-15:45	Local And Covariant Flow Relations For Ope Coefficients In Curved Spacetime, Mark Klehfoth
15:45-16:00	Hadamard Renormalisation Of Charged Scalar Fields, Visakan Balakumar
16:00-16:30	Posters

D4: QUANTUM FIELDS IN CURVED SPACE-TIME, SEMICLASSICAL GRAVITY, QUANTUM GRAVITY PHENOMENOLOGY, AND THEORETICAL ASPECTS OF ANALOGUE GRAVITY

17:00-17:15	On Running Couplings From Adiabatic Regularization, Antonio Ferreira
17:15-17:30	Gauge Without Gauge: From Physical To Emergent Gauge Symmetries, Luis Garay
17:30-17:45	Curved Spacetime Effective Field Theory (Ceft) – Formalism And Some Applications, Lukasz Nakonieczny
17:45-18:00	Laws Of Black Hole Thermodynamics In Semiclassical Gravity, Bruno Arderucio Costa
18:00-18:15	Black Hole Volume And Enthalpy, Jose Lemos
18:15-18:30	Thermodynamics Of Lorentzian Taub-Nut Spacetimes, David Kubiznak
18:30-18:45	Gravity, Null Surfaces And Thermodynamics, Sumanta Chakraborty
18:45-19:00	Confronting Quantum Gravity With Data Through Its Interplay With Matter, Astrid Eichhorn



AUDITORIO 1

8:45-9:30	Opening session	
9:30-10:20	Stars askew in the heavens: the centenary of Eddington's eclipse expeditions, Clifford M. Will	
10:20-10:50	Coffee Break	
10:50-11:40	Post precision cosmology, Licia Verde	
11:40-12:30	The detection of compact binary mergers using the Advanced LIGO and Advanced Virgo detectors, Edward K. Porter	
12:30-13:20	Gravitational physics from quantum information constraints, Mark Van Raamsdonk	
13:20-15:00	Lunch Break	
C2: Gravitational waves: Searches, data analysis, parameter estimation and multi-messenger astronomy		
14:45-15:00	Virgo Detector Characterization Activities During The O3 Run: From Latency To Gravitational-Wave Event Validation, Amaud N.	
15:00-15:15	Intermediate-Mass Binary Black Hole Search With Advanced LIGO And Virgo, Vivekananthaswamy G.	
15:15-15:30	Missed Astrophysical Signal In The Gw150914 Event, Moreschi, O.	
15:30-15:45	Search For Gravitational Lensing Signatures In LIGO-Virgo Binary Black Hole Events, Li, T.	
15:45-16:00	Search For Sub-Threshold Lensed Images Of Gravitational Wave Observations, Mcisaac, C.	
16:00-16:15	A Highly Spinning And Aligned Binary Black Hole Merger In The Advanced LIGO First Observing Run, Roulet, J.	
16:15-16:30	New BBH events in the LIGO/VIRGO O1 and O2 data discovered by an independent analysis, Zackay, B.	
C2: Gravitational waves: Searches, data analysis, parameter estimation and multi-messenger astronomy		
17:00-17:15	The Pycbc Search Pipeline For Binary Merger Signals In O3, Dent, Thomas	
17:15-17:30	Gravitational Wave Detection: A Fully Bayesian Approach, Ashton, G.	
17:30-17:45	Digging Compact Binary Populations Out Of The Noise, Veitch, J.	
17:45-18:00	Machine Learning To Exploit LIGO/Virgo Single-Detector Data Taking Periods, Trovato A.	
18:00-18:15	Improving The Chances Of Gravitational-Wave Detection From Core-Collapse Supernovae With A Single Interferometer, Cavaglia, M.	
18:15-18:30	A Nonlinear Analysis Of Gravitational Waves From Core-Collapse Supernovae, Di Palma, Irene	
18:30-18:45	Low Latency Gw Search And Multi-Messenger Astronomy, Wen, L.	
18:45-19:00	Going Beyond Two Messengers, Maka, Z.	

MONDAY 08, JULY

AUDITORIO 3A

A2: Mathematical relativity and classical gravitation

15:00-15:15	Strong Cosmic Censorship In De Sitter Space, Reall, Harvey							
15:15-15:30	Approximating Gravitational Collapse For Dust With Vlasov Matter, Andréasson Håkan							
15:30-15:45	A Perturbative Approach To The Construction Of Initial Data On Compact Manifolds, Valiente Kroon, Juan A.							
15:45-16:00	Two Non-Normal Spectral Problems In Black Hole Spacetimes, Jaramillo, José Luis							
16:00-16:15	On The Inexistence Of Solitons In Einstein-Maxwellscalar Models, Oliveira, João							
16:15-16:30	Posters							

A2: Mathematical relativity and classical gravitation

17:00-17:15	On The Geometry Of Globally Hyperbolic Spacetimes With Timelike Boundary, Sánchez, Miguel							
17:15-17:30	Cosmic No-Hair In Spherically Symmetric Black Hole Spacetimes, Natario, Jose							
17:30-17:45	Rotating Clouds Of Charged Particles In General Relativity, Thaller, Maximilian							
17:45-18:00	Towards A Fully General Relativistic Geodesy, Laemmerzahl, Claus							
18:00-18:15	The Future Is Not Always Open, Steinbauer, Roland							
18:15-18:30	Shadow Of Black Holes At Cosmological Distances, Tsupko, Oleg							
18:30-18:45	Correspondence Between Sonic Points Of Radiation Flow And Photon Surfaces, Koga, Yasutaka							
18:45-19:00	Black Holes Parameters From Redshifts And Blueshifts Of Photons Emitted By Geodesic Particles Orbiting Around Them, Becerril Barcenas Ricardo							

MONDAY 08, JULY

AUDITORIO 3B

A3: Modified theories of gravity (theoretical aspects)

15.00-15.15	Positivity In The Sky, Noller, Johannes					
15.15-15.30	Beyond Horndeski Gravity: Phenomenology And Parameter Estimation, Traykova, Dina					
15.30-15.45	Latest Constraints On Modified Gravities From Large-Scale Structures, De La Cruz Dombriz, Álvaro					
15.45-16.00	Screenings In Modified Gravity: A Perturbative Approach, Cervantes, Jorge					
16.00-16.15	Mgpt: A Code For Perturbation Theory In Modified Gravity, Rodriguez-Meza, Mario A.					
16.15-16.30	Unravelling The Effective Fluid Approach For Modify Gravity And Dark Energy Models, Arjona Fernández, Rubén					

A3: Modified theories of gravity (theoretical aspects)

17:00-17:15						
Poster	Dynamical Aspects Of Anisotropic Cosmological Models In $F(R, T)$ Gravity, Mishra, Bivudutta					
Poster	Second Order Form Of The Generalized Field Theory, Morcos, Abd El Fady					
Poster	Wormholes In R^2 -Gravity Within The $F(R; T)$ Formalism, Sahoo, Parbati					
Poster	Massive Gravity Illustrated In The Mandelbrot Set, Dickau, Jonathan					
Poster	Quantum-Mechanical Solution Of Singularity Problem In The Logarithmic Superfluid Theory Of Physical Vacuum, Zloshchastiev					
Poster	Various Windows To Understand Extra Dimensions, Chakraborty, Sumanta					
Poster	Gravitational Collapse Of Massive Stars In $F(X)$ Theory, Kausar					
Poster	Study Of Stellar Structure In Modified Theory Of Gravity, Waseem, Arfa					
Poster	Gravitational Decoupled Anisotropic Stars In Modified Gauss-Bonnet Gravity, Saba, Saadia					
Poster	Nonminimal Couplings, Gravitational Waves, And Torsion In Horndeski's Theory, Valdivia, Omar					
Poster	Perturbation Theory For Biased Tracers In Modified Gravity, Cervantes, Jorge					
17:15-17:30	Parametrizing Modified Gravities With Vector Degrees Of Freedom: Anisotropic Growth And Lensing, Aparicio, Miguel					
17:30-17:45	Aspects Of Nonlocal Cosmology Models, Park, Sohyun					
17:45-18:00	Modified Einstein Gravity To Unify Under- And Over-Luminous Type Ia Supernovae, Mukhopadhyay, Banibrata					
18:00-18:15	Phantom Energy As A Transient Phenomenon Avoiding Cosmic Doomsday In $F(R)$ Gravity, Sahoo, Pradyumn					
18:15-18:30	Dynamics Of Inflation And Dark Energy From $F(R, G)$ Gravity, Banerjee, Shreya					
18:30-18:45	Bouncing Cosmological Solutions In Scalar - Tensor Gravity, Verbin, Yosef					

B2: NUMERICAL RELATIVITY

14:30-14:45	A Multi-Messenger Analysis Of Neutron Star Mergers Employing Numerical Relativity Simulations, Tim Dietrich
14:45-15:00	Post Merger Dynamics Of Binary Neutron Star Mergers, Michele Pasquali
15:00-15:15	Kelvin'S Theorem And Hamilton-Jacobi Fluid Dynamics In Gravitational Wave Astrophysics, Charalampos Markakis
15:15-15:30	Eccentric Binary Neutron Stars In Numerical Relativity, Swami Chaurasia
15:30-15:45	Numerical General Relativistic Simulations: Collapse Collapse Supernovae And Neutron Stars Astrophysics, Patrick Cheong
15:45-16:00	Gravitational Waves From Tidally-Induced F-Modes: Probing Neutron Star Structure,Roman Gold
16:00-16:15	Towards Efficient, Resistive, Multi-Fluid Simulations Of Neutron Star Mergers, Alex Wright
16:15-16:30	Initial Conditions for Cosmic Inflation after Non-Singular Bounce, Anupam Mazumdar

B2: NUMERICAL RELATIVITY

17:00-17:15	Constructing High Precision Numerical Binary Black Hole Initial Data, Georgios Doulis, Georgios Doulis
17:15-17:30	Improvements On Initial Data For Spinning Neutron Star Binaries, Hannes Rüter
17:30-17:45	The Impact Of Junk Radiation On Numerical Relativity Waveforms, Deirdre Shoemaker
17:45-18:00	Parabolic-Hyperbolic Formulation Of The Black Holes Initial Data - Numerical Studies, Anna Nakonieczna
18:00-18:15	Initial Data For Orbiting Charged Binary Black Holes With Arbitrary Spins, Nathan Johnson-McDaniel
18:15-18:30	Hyperbolic Relaxation Method For Elliptic Equations In Numerical Relativity, Bernd Bruegmann
18:30-18:45	Surrogate Model Of The Waveform And Remnant Properties Of Precessing Binary Black Holes, Vijay Varma



B1: RELATIVISTIC ASTROPHYSICS

14:30-14:45	Neutron Stars Mergers Out Of The Blur: Modeling Turbulent Scales In Large Eddy Simulations, Daniele Viganò
14:45-15:00	Short Gamma-Ray Bursts And Multimessenger Astrophysics, Riccardo Ciolfi
15:00-15:15	Effect Of Neutrinos On Binary Neutron Star Thermodynamics, A. Endrizzi
15:15-15:30	Study Of Non-Linear Mode-Tide Coupling Binary Neutron Stars In Relativistic Formalism, Fatemeh Hossein
15:30-15:45	Deformations Of Neutron Stars With Elastic Crusts, Fabian Gittins
15:45-16:00	Mass Ejection From Remnants Of Binary Neutron Star Mergers, Sho Fujibayashi
16:00-16:15	Binary Hybrid Star Mergers And The Phase Diagram Of Quantum Chromodynamics, Matthias Hanauske
16:15-16:30	Triggering Magnetar Outbursts In 3D Force-Free Simulations, F. Carrasco
Posters	Pulsars In Compact Orbits Around Sgr, Walid Majid

B1: RELATIVISTIC ASTROPHYSICS

17:00-17:15	Luminosity Selection In Gamma Ray Bursts, S. Banerjee
17:15-17:30	Let Us Watch A Collapsing Star: How Does It Look?, Hirotaka Yoshiko
17:30-17:45	Light Ring Stability In Ultra-Compact Objects, P. Cunha
17:45-18:00	Differentially Rotating Quark Stars In General Relativity, Enping Zhou
18:00-18:15	The Stability Properties Of Differentially Rotating Neutron Stars And Strange Stars, P. Szewczyk
18:15-18:30	On The Maximum Mass Of Differentially Rotating Neutron Stars And Strange Stars, Dorota Rosinska



B5: GRAVITATIONAL WAVES AND COSMOLOGY

14:30-15:00	Review of Standard Sirens With Ground-Based Interferometers, Holz, Daniel
15:00-15:30	Review of Standard Sirens With LISA, Tamanini, Nicola
15:30-15:45	Studying Modified Gravitational-Wave Propagation With LISA, Belgacem, Enis
15:45-16:00	Cosmological Parameters And Dark Energy With Advanced Gravitational-Wave Detectors, Dirian, Yves
16:00-16:15	A Statistical Constraint On The Hubble Constant From The Latest Gravitational Wave Detections, Gray, Rachel
16:15-16:30	HD Inference With Gravitational Wave Standard Sirens: A Mock Data Challenge, Qi, Hong

B5: GRAVITATIONAL WAVES AND COSMOLOGY

17:00-17:15	Cosmology With Gravitational Waves And Galaxy Catalogues, Ghosh, Archisman
17:15-17:30	Measuring The Hubble Constant With Neutron Star Black Hole Mergers, Vitale, Salvatore
17:30-17:45	Joint Cosmological Inference Of Standard Sirens And Gravitational Wave Weak Lensing, Congedo, Giuseppe
17:45-18:00	Constraining The Fraction Of Compact Dark Matter From Micro Lensing Of Gravitational Waves, Ganguly, Apratim
18:00-18:15	Probing Dark Matter At Ligo And Beyond, Jung, Sunghoon
18:15-18:30	Probing The Large Scale Structure With Gravitational-Wave Observations Of Binary Black Holes, Vijaykumar, Aditya



A1: EXACT SOLUTIONS AND THEIR INTERPRETATION

14:30-14:45	The Type D Horizons And The Petrov Type D Spacetimes, Dobkowski-Rylko, Denis
14:45-15:00	Stability Of Anisotropic Homogeneous Cylinder, Muhammad Sharif
15:00-15:15	Compact Objects And The Swampland, Kunihiro Uzawa
15:15-15:30	Energy Extraction From An Extremal Rotating Electrovacuum Black Hole Through Charged Particle Collisions, Hejda, Filip
15:30-15:45	Influence Of Intrinsic Spin In The Formation Of Singularities For Inhomogeneous Effective Dust Space-Times, Luz, Paulo.
15:45-16:00	Dynamical Spacetimes In Einstein-Maxwell-Dilaton Theory And Cosmic Censorship, Rocha, Jorge V.
16:00-16:15	Generating Spiky Solution Of Einstein'S Field Equations With The Stephani Transformation, Moughal, Muhammad Zubair Ali
16:15-16:30	Anisotropic Solutions For Stellar Configurations, Sobia Sadiq

A1: EXACT SOLUTIONS AND THEIR INTERPRETATION

17:00-17:15	Causality Violating Lightlike Trips In Godel'S Universe, Nolan, Brien
17:15-17:30	Scissors-And-Paste With Lambda: The Geometric Picture, Steinbauer, Roland
17:30-17:45	Creation And Evolution Of Traversable Wormhole In Flrw Universe, Kim, Sung-Won
17:45-18:00	Thin-Shell Toroidal T^2 -Wormhole, Vladimir Dzhunushaliev
18:00-18:15	A Novel Strong Gravitational Lensing Feature From Wormholes, Suvankar, Paul
18:15-18:30	Interpretation Of Exact Inflationary Solutions Using Induced Gravity Scenario, Saleem, Rabia
18:30-18:45	Compact Objects And The Swampland, Kunihiro Uzawa



A4: COMPLEX AND CONFORMAL METHODS IN CLASSICAL AND QUANTUM GRAVITY

14:30-15:00	Aspects Of Perturbation Theory With A Cosmological Constant. Tim Adamo
15:00-15:15	Construction Of Ads-Like Space-Times: The Tracefree Matter Case. Diego Carranza-Ortiz
15:15-15:30	A Novel Characterisation Of Gravitational Radiation In Asymptotically Flat Space-Times, Francisco Fernández-Álvarez
15:30-16:00	Loop Amplitudes From Ambitwistor Strings. Ricardo Monteiro
16:00-16:15	Characterization Of N-Dimensional Kerr-De Sitter At Null Infinity And Its Limit. Carlos Peon-Nieto
16:15-16:30	A Quantum Theory For The Classical Graviton. Carlos Kozameh

A4: COMPLEX AND CONFORMAL METHODS IN CLASSICAL AND QUANTUM GRAVITY

17:00-17:30	Total Characteristics And The Conformal Einstein Field Equations. Juan Valiente Kroon
17:30-17:45	The Conformal Einstein Field Equations With Massless Vlasov Matter. Maximilian Thaller
17:45-18:00	The Complex And Projective Geometry Of Penrose Limits. George Sparling



C9: EXPERIMENTAL GRAVITATION

15:00-15:30	Testing The Gravitational Inverse-Square Law With Torsion Pendulum In Hust Yang, Shanqing
15:30-15:45	Getting Close To Gravity: Developing A Superconducting Torsion Balance To Test The Inverse Square Law Of Gravity Gettings, C.
15:45-16:00	Experimental Studies Of Gravity With Slow Neutrons, Kitaguchi, Masaaki
16:00-16:15	Setting Stronger Dark Sector Limits On Monopole-Monopole And Monopole-Dipole Interactions Using Cylinders Bsaibes, T
16:15-16:30	Newton-V Experiment: Test Of Gravitational Inverse Square Law At A Micrometer Scale Shibaguchi, Hiroyuki

C9: EXPERIMENTAL GRAVITATION

17:00-17:30	Experimental Search For New Gravity-Like Interactions In The Nanometer Range, Kamiya, Yoshio
17:30-17:45	A New Class Of Experiments On The True Relativistic Nature Of The One-Way Propagation Of Light Unnikrishnan. C. S.
17:45-18:00	Gravitational Properties Of Light, Raetzal, Dennis
18:00-18:15	A Comparison Between The Gravitational Wave And The X-Ray Spectroscopy Approaches, Cardenas-Avendano, Alejandro
18:15-18:30	Extreme Gravity With X-Rays: A Study Into The Nature Of Compact Objects Using X-Ray Reflection Spectroscopy, Nampalliwar, Sourabh



C8: EDUCATION AND PUBLIC OUTREACH ON GRAVITATIONAL WAVE ASTRONOMY

15:00-15:30	Education And Public Outreach Efforts By Pulsar Timing Array Collaborations, Hazboun, Jeffrey S
15:30-15:45	Gravitational Wave Outreach With The International Pulsar Timing Array, Perrodin, Delphine
15:45-16:00	The Pulsar Search Collaboratory, Williamson, Kathryn
16:00-16:15	Qfirs – An Integrated Structured Educational Programme For Doctoral Students And Postdocs In Hannover And Braunschweig, Kawazoe, Fumiko

C8: EDUCATION AND PUBLIC OUTREACH ON GRAVITATIONAL WAVE ASTRONOMY

17:00-17:30	Advocacy And Outreach Activities Of The LISA Consortium, Hendry, Martin
17:30-17:45	The European Research Council - Funding Opportunities For Bright Minds, Oswald, Christian
17:45-18:00	Black Holes Tend (Not) To Exist! Some Personal Reflections About Public Dissemination On Gravity, Pani, Paolo
18:00-18:15	Of Funnels, Rivers And Trampolines: The Perils Of Conveying Spacetime Curvature To The Uninitiated, Emparan, Roberto



B4: COSMOLOGY: THEORY AND OBSERVATIONS

14:30-14:45	Testing the Inflationary Particle Content with Primordial Gravitational Waves, Matteo Fasiello
14:45-15:00	Geometrical Destabilization, Sidetracked Inflation and Swampland Conjectures, Sebastien Renaux-Petel
15:00-15:15	Non-Gaussianities in Multi-Field Inflation with Strongly Non-Geodesic Motion, Lucas Pinol
15:15-15:30	Non-Gaussian CMB and Statistics Beyond Polyspectra, Spyros Sypsas
15:30-15:45	The Viability of Chaotic Inflation in a Generalized Galileon Scenario, Nelson Videla
15:45-16:00	Fermionic Preheating: Renormalization, Backreaction and Initial Conditions, Silvia Pla
16:00-16:15	A Possible Higher-Dimensional Alternative to Scalar-Field Inflationary Theory, Chad Middleton
16:15-16:30	Initial Conditions for Cosmic Inflation after Non-Singular Bounce, Anupam Mazumdar

B4: COSMOLOGY: THEORY AND OBSERVATIONS

17:00-17:15	The Umami Chaplygin Model, Maria Ortiz-Baños
17:15-17:30	Galaxy Correlations at the Smallest Scales, Vicent Martínez
17:30-17:45	Relativistic Cosmological Large-Scale Structures at One-Loop, Radouane Gannouji
17:45-18:00	Sunyaev-Zeldovich Effect as a Tool to Probe Fundamental Physics, Ivan de Martino
18:00-18:15	General Gravitational Lenses of Cosmological Systems, Ezequiel Boero
18:15-18:30	Towards Precision Tests of the Cosmological Principle: Inhomogeneous Backreaction versus Λ CDM, David Wiltshire



TUESDAY 9 JULY

AUDITORIO 1

9:00-9:50	Our Galactic Center: A unique laboratory for the physics and astrophysics of black holes, Andrea Ghez	
9:50-10:40	The unbearable lightness of spacetime: testing the nature of dark compact objects, Paolo Pani.	
10:40-11:10	Coffee Break	
11:10-12:00	Mathematical progress in general relativity, Jonathan Luk.	
12:00-12:50	Multimessenger astrophysics with gravitational waves, Katerina Chatziioannou.	
12:50-14:30	Diversity Lunch	
C2: Gravitational waves: Searches, data analysis, parameter estimation and multi-messenger astronomy		
14:30-14:45	Intercalibration Of Advanced Ligo And Advanced Virgo For The Third Observing Run O3, Esteves, D.	
14:45-15:00	The Simulation Of Gravitational Wave Emission From Core-Collapse Supernovae, Powell, J	
15:00-15:15	There And Back Again: Learning Forward/Inverse Solutions In Gravitational-Wave Inference, Chua, Alvin J. K.	
15:15-15:30	A Nonparametric Approach To Gravitational-Wave Inference Of The Neutron Star Equation Of State, Landry, Philippe	
15:30-15:45	Distinguishing Binary Neutron Star From Neutron Star-Black Hole Mergers With Gravitational Waves, Chen, H.-Y.	
15:45-16:00	Detectability Of R-Modes In Binary Neutron Star Inspirals, Samajdar, Anuradha	
16:00-16:15	Constraining F-Modes In Binary Neutron Star Inspirals With Gravitational Waves, Schmidt, Patricia	
16:15-16:30	Pick The Right One: Bayesian Model Selection On Catalogs Of Gravitational-Wave Events, Gerosa, D	
C2: Gravitational waves: Searches, data analysis, parameter estimation and multi-messenger astronomy		
17:00-17:15	Unmodeled Source Reconstruction With Gravitational Waves, Macas, Ronaldas	
17:15-17:30	Disclosing The Features Of Transient Gravitational Waves Independently From Waveform Models, Lazzaro, Claudia	
17:30-17:45	Exploring The Measurability Of Precession, Hoy Charlie	
17:45-18:00	Eccentricity Distributions Of Eccentric Binary Black Holes In Galactic Nuclei, Raffai, P	
18:00-18:15	Quantifying The Importance Of Higher Harmonics In Binary Black Hole Observations, Hannam, Mark	
18:15-18:30	Distance-Inclination Angle Measurements For Non-Optimally Oriented Binary Black Holes, Chandra Kant Mishra	
18:30-18:45	Understanding The Evolution Of Stellar-Mass Black Hole Binaries, Berry, Christopher P L	
18:45-19:00	Unraveling Formation Channels Of Binary Black Holes, Bouffanais, Y	

TUESDAY 09, JULY

AUDITORIO 2

A3: Modified theories of gravity (theoretical aspects)

14:30-15:00	Self-interactions and spontaneous black hole scalarization. Berti, Emanuele				
15:00-15:15	Spontaneous Black Hole Scalarization. Okada Da Silva, Hector				
15:15-15:30	Spontaneous scalarization of black holes in scalar-tensor theories with derivative couplings. Minamitsuji, Masato				
15:30-15:45	Dynamically viable Asymptotically Flat Black Holes with Scalar Hair: Superradiant Growth vs. Scalarisation. Herdeiro, Carlos				
15:45-16:00	Nonspherical Horizons from Black Hole Scalarization. Radu, Eugen				
16:00-16:15	Deformed Compact Objects in General Relativity and beyond. Raposo, Guilherme				
16:15-16:30	Tidal Love Numbers of Black Holes and Neutron Stars in the Presence of Higher Dimensions: Implications of GW170817. Bose, Sukanta				

A3: Modified theories of gravity (theoretical aspects)

17:00-17:15					
Poster	Quantum Mechanics Of The Interior Of The Russo-Susskind-Thorlacius Black Hole Daghigh				
Poster	Teleparallel Bigravity Blixt				
Poster	Spontaneous Scalarisation Of Charged Black Holes: Coupling Dependence And Dynamical Features Pombo				
Poster	Gravitational Radiation From The Inspiral Of Compact Binaries Based On A Yukawa-Type Addition To The Newtonian Potential, Larrañaga				
Poster	Extra-General Relativity Coumbe				
Poster	Ghosts In Metric-Affine Gravity, Delhom I Latorre				
Poster	Chronology Protection Problem In Modified Kerr Newman Spacetime Gutti				
Poster	Premetric Teleparallel Gravity As A Framework For Lorentz And Parity Symmetry Violation Models. Itin				
Poster	Universal And Almost Universal Spacetimes In Higher-Order Gravities Pravda				
Poster	Generalized Tachyonic Teleparallel Cosmology Bahamonde				
Poster	Gravitational Waves In Symmetric Teleparallel Gravity, Levi Said				
17:15-17:30	Rotating Black Holes In Higher Order Gravity Crisostomi, Marco				
17:30-17:45	Rotating Black Holes In The Cubic Galileon Theory Van Aelst, Karim				
17:45-18:00	Leading Higher-Derivative Corrections To Kerr Geometry Cano, Pablo				
18:00-18:15	Static, Spherically Symmetric Solutions To Quadratic Gravity, Pravdova Alena				
18:15-18:30	Compact Objects In Einstein-Cartan Theory: The Effects Of Intrinsic Spin In Celestial Bodies Luz, Paulo				
18:15-18:30	Regular Black Holes In Ricci-Based Theories Of Gravity, Rubiera-Garcia, Diego				

TUESDAY 09, JULY

AUDITORIO 3A

A2: Mathematical relativity and classical gravitation

14:30-14:45	Spherically Symmetric Static Solutions Of Einstein-Vlasov And Their Perturbation Spectrum, Gundlach, Carsten								
14:45-15:00	Equations For General Thin Shells, Senovilla, José M M								
15:00-15:15	Mass Inflation And Strong Cosmic Censorship For The Spherically Symmetric Einstein-Maxwell-Scalar Field System With A Cosmological Constant And An Exponential Price Law, Drumond Silva, Jorge								
15:15-15:30	Higher Order Linear Stability And Instability Of Reissner-Nordstrom's Cauchy Horizon, Girão, Pedro								
15:30-15:45	Asymptotically Ads Solitons And Their Stability, Maliborski, Maciej								
15:45-16:00	Spherically Symmetric, Steady States Of Newtonian Self-Gravitating Elastic Matter, Alho, Artur								
16:00-16:15	Critical Phenomena And Cosmic Censorship: A Semilinear Wave Model, Suárez Fernández, Isabel								
16:15-16:30	The Schrodinger-Newton-Hooke Equation - A Non-Relativistic Limit For Ads Perturbations, Ficek, Filip								
A2: Mathematical relativity and classical gravitation									
17:00-17:15	Symmetries Of Vacuum Spacetimes With A Compact Cauchy Horizon Of Constant Non-Zero Surface Gravity, Rácz, István								
17:15-17:30	Type D Conformal Initial Data, García-Parrado, Alfonso								
17:30-17:45	Global Existence Of Solutions To The Spherically Symmetric Einstein-Scalar Field System, Mena, Filipe								
17:45-18:00	Completeness Of Local Gauge Invariant Observables On Cosmological And Black Hole Spacetimes, Khavkine, Igor								
18:00-18:15	Existence And Uniqueness Of Rigidly Rotating Stars To Second Order In Perturbation Theory In Gr, Raúl Vera								
18:15-18:30	Perturbations Of Hypersurfaces Of Arbitrary Causal Character, Reina, Borja								
18:30-18:45	Quasinormal Modes Of Dirac And Gravitational Fields In Generalized Nariai Spacetimes, Joás Da Silva Venâncio								
18:45-19:00	Spinorial Formalism And Symmetries In Six Dimensions, Batista, Carlos								

TUESDAY 09, JULY

AUDITORIO 3B

D4: Quantum fields in curved space-time, semiclassical gravity, quantum gravity phenomenology, and theoretical aspects of analogue gravity

14:30-15:00	How To Hide A Cosmological Constant, Steven Carlip
15:00-15:15	Quantum Incompleteness Of Inflation, Job Feldbrugge
15:15-15:30	Qualitative Dynamics Of Quantum Cosmology From Loop Quantum Gravity, Anzhong Wang
15:30-15:45	Black Hole Entropy And Gravitational Wave Observations: A Mechanism For Small Primordial Spins, Eugenio Bianchi
15:45-16:00	A New Look At Remnants As Dark Matter, Francesca Vidotto
16:00-16:15	Self-Gravitating Black Hole Scalar Wigs And The \$M_{\{Bh\}}\$-\$\Sigma\$ Relation, Juan Barranco
16:15-16:30	Observable Traces Of Non-Metricity: New Constraints On Metric-Affine Gravity, Adrià Delhom I Latorre
D4: Quantum fields in curved space-time, semiclassical gravity, quantum gravity phenomenology, and theoretical aspects of analogue gravity	
17:00-17:30	An Experiment To Demonstrate Frequency-Dependent Squeezing With Epr Entanglement For Gravitational Waves Detectors, Fiodor Sorrentino
17:30-17:45	Fiber-Based Laser Systems For 3G Detectors: State-Of-The-Art And Outlook, Michael Steinke
17:45-18:00	Micromechanical Resonators In The Whitelight Cavity For Improved Gravitational Wave Detectors, Li Ju
18:00-18:15	Newtonian Noise Estimates Using Data From The Homestake Array, Andrew Matas
18:15-18:30	Newtonian Noise Cancellation With Deep Learning, Alessio Cirone

B2: NUMERICAL RELATIVITY

14:30-14:45	L-Boson Stars, Miguel Alcubierre
14:45-15:00	Dynamics Of Scalar Fields Around Black Holes, Juan Carlos Degollado
15:00-15:15	Numerical Simulations Of Boson Stars, Miren Radia
15:15-15:30	Using Grchombo To Simulate Boson Stars, Robin Croft
15:30-15:45	Dynamical Formation Of Proca Stars And Quasi-Stationary Solitonic Objects, Fabrizio Di Giovanni
15:45-16:00	Non-Linear Stability Of Rotating Proca Stars, Nicolas Sanchis-Gual
16:00-16:15	Massive Klein-Gordon Fields On Hyperboloidal Slices, Shalab Gautam
16:15-16:30	Reaching Infinity: Free Hyperboloidal Evolution Using Conformal Methods In Spherical Symmetry, Alex Vano-Vinuales

B2: NUMERICAL RELATIVITY

17:00-17:15	Bsc
17:15-17:30	The Blackholes@Home Project: Black Hole Binaries On The Desktop Computer, Zachariah Etienne
17:30-17:45	The Threshold For Primordial Black Holes: Dependence On The Shape Of The Cosmological Perturbation, Ilia Musco
17:45-18:00	Sphericalnr: Numerical Relativity In Spherical Coordinates With The Einstein Toolkit Vassilios Mewes
18:00-18:15	Numerical Studies Of Binary Black Hole (Bbh) Mergers Through Quasi-Local Horizon Characteristics, Anshu Gupta
18:15-18:30	A Catalog Of Numerical Relativity And Hybrid Waveforms Of Eccentric Black-Hole Binary Systems, Antoni Ramos



B1: RELATIVISTIC ASTROPHYSICS

14:30-14:45	New Gravitational Lens Equations For Black Holes With Angular Momentum, E.F. Bore
14:45-15:00	The Gravitational Magnus Effect, L.Filipe O. Costa
15:00-15:15	Beyond Force-Free Electrodynamics: Effective Field Theory And Bosonization, Samuel E. Gralla
15:15-15:30	Probing Extreme Gravity With X-Ray Burst Oscillations, Hector O. Silva
15:30-15:45	Can We Observe Spherical Photon Orbits In Near-Extremal Kerr Black Holes?, Hideki Ishidara
15:45-16:00	The Propagation Delay In The Timing Of A Pulsar Orbiting A Supermassive Black Hole, E. Hackmann
16:00-16:15	Equilibrium Of Charged Perfect Fluid Near Black Hole, Audrey Trova
16:15-16:30	Bondi Accretion In The Spherically Symmetric Johannsen-Psaltis Spacetime, Anslyn John
Posters	Weak Lensing In A Plasma Medium And Gravitational Deflection Of Massive Particles Using The Gauss-Bonnet Theorem, E. Gallo
Posters	Estimating Neutron Star Crust-Core Lag Evolution Using A Hidden Markov Model, M. Millhouse

B1: RELATIVISTIC ASTROPHYSICS

17:00-17:15	An Extension Of The Relxill X-Ray Reflection Model For Non-Kerr Spacetimes, Askar Abdikamalov
17:15-17:30	Extreme-Mass-Ratio Inspirals Produced By Tidal Capture Of Binary Black Holes, X. Chen
17:30-17:45	Constraints On Parameterized Post-Einsteinian Framework From Binary Pulsar, Remya Nair
17:45-18:00	Weak Lensing In Terms Of Curvature Scalars And Energy-Momentum Tensor For Pure Gravity And Plasma Media, E. Gallo
18:00-18:15	Looking For Signatures Of Black Hole Mimickers With The Event Horizon Telescope, H. Olivares
18:15-18:30	Gr Effects On Hill Stability, H. Suzuki



B3: APPROXIMATIONS, PERTURBATION THEORY, AND THEIR APPLICATIONS

14:30-14:45	Towards High Precision Ringdown Fitting, Lorena Magaña Zertuche
14:45-15:00	A Precession Model Tuned To Pn, Perturbation Theory And Numerical Relativity, Eleanor Hamilton
15:00-15:15	Massive Tensor Field Perturbations On Extremal And Near-Extremal Static, Kodai Ueda
15:15-15:30	Moving Black Holes: Energy Extraction, Absorption Cross-Section And The Ring Of Fire, Rodrigo Vicente
15:30-15:45	The Motion Of Localized Sources In General Relativity: Gravitational Self-Force From Quasilocal Conservation Laws, Marius Oltean
15:45-16:00	Second-Order Self-Force Calculations: A Status Report, Adam Pound
16:00-16:15	A Prospective Method For Calculating The Second-Order Gravitational Self-Force In A Kerr Background Spacetime To Model EMRIs, Andrew Spiers
16:15-16:30	Gravitational Self-Force And The Hunt For Extreme-Mass-Ratio, Samuel Upton

B3: APPROXIMATIONS, PERTURBATION THEORY, AND THEIR APPLICATIONS

17:00-17:15	Regularisation Of The Self-Force For Generic Orbits In Kerr Spacetime, Anna Heffernan
17:15-17:30	Time Domain Method For The Green Function In Schwarzschild Spacetime, Conor O'Toole
17:30-17:45	Faster Emri Waveforms, Niels Warburton
17:45-18:00	Is There Chaos During Extreme Mass-Ratio Inspirals In Dynamical Chern-Simons Gravity?, Alejandro Cardenas-Avendano
18:00-18:15	Dissipation In Extreme Mass Ratio Binaries With A Spinning Secondary, Chris Kavanagh
18:15-18:30	Extended Test Bodies With Spin In Curved Spacetime, Georgios Lukes-Gerakopoulos



B5: GRAVITATIONAL WAVES AND COSMOLOGY

14:30-14:45	14:30-14:45 Measuring The Impact Of The Gravitational Wave Intrinsic Geometry On The Hubble Constant Measure, Simone Mastrogiovanni
14:45-15:15	Gravitational Waves And Early Universe Cosmology, Figueroa, Daniel
15:15-15:30	Gravitational Wave Production From Preheating: Parameter Dependence, Torrentí, Francisco
15:30-15:45	Spectator Fields On A Roller Coaster: Gravitational Waves From Short-Lived Cosmic Strings, Bettoni, Dario
15:45-16:00	Primordial Black Holes As Dark Matter, García-Bellido, Juan
16:00-16:15	Probing The Existence Of Ultralight Bosons With A Single Gravitational-Wave Measurement, Hannuksela, Otto
16:16-16:30	Posters

B5: GRAVITATIONAL WAVES AND COSMOLOGY

17:00-17:15	Dilatonic Imprints On Exact Gravitational Wave Signatures, Kubiznak, David
17:15-17:30	Dark Energy After GW170817, Crisostomi, Marco
17:30-17:45	Gravitational Wave Afterglow Of Stellar Collapse In Massive Scalar-Tensor Gravity, Sperhake, Ulrich
17:45-18:00	Graviton-Photon Oscillation Beyond Gr, Martin-Moruno, Prado
18:00-18:15	Strong Equivalence Principle And Gravitational Wave Polarizations In Horndeski Theory, Hou, Shaoqi
18:15-18:30	Primordial Gravitational Waves In Horndeski Gravity, De Araujo, José Carlos



C7: MULTI-MESSENGER ASTRONOMY OF GRAVITATIONAL WAVE SOURCES

14:30-14:45	GW170817: Astrophysical Results And Implications For Cosmic Nucleosynthesis, Daniel Siegel
14:45-15:15	What Else Can We Learn From Kilonova Observations?, Szabolcs Marka
15:15-15:30	Binary Neutron Star Mergers As Short Gamma-Ray Burst Central Engines, Riccardo Ciolfi
15:30-15:45	Short Gamma Ray Bursts, Jets, And Kilonovae, Agnieszka Janiuk
15:45-16:00	A Luminosity Distribution For Kilonovae Based On Short Gamma-Ray Burst Afterglows, Stefano Ascenzi
16:00-16:15	Are Kilonovae Standardizable Candles?, Rahul Kashyap
16:16-16:30	Electromagnetic Counterparts Of Neutron Star Mergers, Nedora Vsevolod
Posters	Kiranjyot Gill, Gravitational Waves From Fallback Accretion And Black Hole Formation In Long Gamma-Ray Bursts
Posters	Fabricia Pereira, Merger Rates And The Electromagnetic Counterparts To Misaligned Supermassive Black Hole Binaries

C7: MULTI-MESSENGER ASTRONOMY OF GRAVITATIONAL WAVE SOURCES

17:00-17:15	Analysing Beaming Profiles Of Short Gamma-Ray Bursts Using Gravitational Waves, Fergus Hayes
17:15-17:30	Revisiting The Lower Bound On Tidal Deformability Derived By At 2017Gfo, Kenta Kiuchi
17:30-17:45	Constraining The Neutron Star Equation Of State Using Multi-Band Independent Measurements Of Radii And Tidal Deformabilities, Margherita Fasano
17:45-18:00	Multi-Messenger Search For Binary Neutron Star Mergers, Alexander Nitz
18:00-18:15	The Contribution Of Integral To The Search Of Gamma-Ray Gw Counterparts, Carlo Ferrigno
18:15-18:30	Search For Gravitational Waves Associated With Gamma-Ray Bursts During The Second Advanced LIGO-Virgo Observing Run, Ronaldas Macas
18:30-18:45	Gravitational Wave Astronomy Prospectives For Core-Collapse Supernovae Populations, Kiranjyot Gill



D1: LOOP QUANTUM GRAVITY AND SPIN FOAMS

14:30-15:00	The Mukhanov-Sasaki Hamiltonian In The Context Of Adiabatic Vacua And The Lewis-Riesenfeld Invariant, Kristina Giesel
15:00-15:15	Towards The Understanding Of Quantum Cosmology From Loop Quantum Gravity, Anzhong Wang
15:15-15:30	New Cosmological Dynamics In Quantum Reduced Loop Gravity, Gioele Botta
15:30-15:45	The Emergent Inflationary Universe In Quantum Reduced Loop Gravity: Primordial Perturbations And Their Power Spectra, Javier Olmedo
15:45-16:00	Some Aspects Of Phenomenology Of Loop Quantum Gravity For Cosmology And Black Holes, Flora Moulin
16:00-16:15	Loop Quantum Gravity For Axisymmetric Spacetimes, Jorge Pullin
16:15-16:30	From Quantum Reference Systems To Quantum General Covariance, Philipp Hoehn

D1: LOOP QUANTUM GRAVITY AND SPIN FOAMS

17:00-17:30	Spin Foams And Emergent Gravity, Antonia Zipfel
17:30-17:45	Correlations In Spinfoam Cosmology, Francesca Vidotto
17:45-18:00	Entanglement Entropy In Lqg: Analytical And Numerical Results, Eugenio Bianchi
18:00-18:15	An Update On Progress Towards A Satisfactory Quantum Dynamics For Lqg, Madhavan Varadarajan
18:15-18:30	Conformal Boundary Field Theory For 3D Lqg, Wolfgang Wieland
18:30-18:45	Connection Dynamics Of Weyle Gravity, Yongge Ma



ROOM 7- The session has changed its location to Hotel Sorolla Palace(Near the venue)- Floor E- Salon Recati**C3: PROGRESS AND CHALLENGES IN ADVANCED GROUND BASED DETECTORS**

14:30-15:00	Status And Performance Of The Advanced Virgo Detector During The Observation Run 3, Arnaud, N.
15:00-15:15	Stability Of Low Loss Substrates For Coating Research: From Edge Effect To Ageing, Lumaca, D
15:15-15:30	The Advanced Virgo Interferometer Sensing And Control For The O3 Scientific Run, Mantovani, M.
15:30-15:45	Operating Detectors Out Of Equilibrium Can Improve Sensitivity?, Gammaitoni, L
15:45-16:00	High-Quality Oxide Coating Materials For Gravitational-Wave Detectors: Optical And Mechanical Properties Correlation And Future Developments, Amato A.
16:00-16:15	Towards Advanced Virgo Plus, Flaminio, R
16:15-16:30	Posters

C3: PROGRESS AND CHALLENGES IN ADVANCED GROUND BASED DETECTORS

17:00-17:30	Advanced LIGO Detectors In O3, Buikema, A
17:30-17:45	Latest Status Of Kagra, Shinkai, Hisaaki
17:45-18:00	Cryogenic Mirror System In Kagra, Tomaru, Takayuki
18:00-18:15	Prospects For Upgrading The Kagra Gravitational Wave Telescope, Michimura, Yuta
18:15-18:30	Zaiga: Zhaoshan Long-Baseline Atom Interferometer Gravitation Antenna, Gao, Dongfeng
18:30-18:45	Three Methods For Characterizing Thermo-Optic Noise In Optical Cavities, Gretarsson, E



B4: COSMOLOGY: THEORY AND OBSERVATIONS

14:30-14:45	Local Dynamics of Ultralight Bosonic Dark Matter, Francisco Guzman
14:45-15:00	Testing BEC Dark Matter with Gravitational Waves, Dimitar Ivanov
15:00-15:15	The Quantum Character of the Scalar Field Dark Matter, Tonatiuh Matos
15:15-15:30	Scalar Dark Matter Candidate During Postinflationary Epoch, José Manuel Sánchez Velázquez
15:30-15:45	Ultra-light boson particles as dark matter candidates: boson mass and self-interaction, Luis Urena-Lopez
15:45-16:00	Oscillon Statistics During Preheating, Antonio Ferreira
16:00-16:15	Cosmological Evolution of Perturbations in a Model of Superfluid Dark Matter, Sayantani Bera
16:15-16:30	The Abundance of PBHs depends on the Shape of the Inflationary Power Spectrum, Ilia Musco

B4: COSMOLOGY: THEORY AND OBSERVATIONS

17:00-17:15	The Dipole of the Galaxy Bispectrum, Roy Maartens
17:15-17:30	Constraints on millicharged dark matter and axion-like particles from timing of radio waves, Laura Sberna
17:30-17:45	New Parametrized Equation of State for Dark Energy Surveys, Celia Escamilla-Rivera
17:45-18:00	Measuring Angular Diameter Distances of $z \sim 10$ with the Cosmic Infrared Background Fluctuations, Fernando Atrio-Barandela
18:00-18:15	Testing Gravity with J-PAS, Antonio Maroto
18:15-18:30	Attractor Cosmology and Initial Conditions Beyond the Poles, Sotirios Karamitsos
18:30-18:45	Dynamical Systems In Perturbative Cosmology, Artur Alho



WDNESDAY 10 JULY

Auditorium 1

9:00-9:50	Accelerated expansion in cosmology: problems and progress, Eva M. Silverstein				
9:50-10:40	Pulsar Timing Arrays: the next frontier of gravitational wave astronomy, Timothy Pennucci and Stephen Taylor.				
10:40-11:10	Coffee Break				
11:10-12:50	Award Ceremony				
12:50-14:30	Lunch Break				
A3: Modified theories of gravity (theoretical aspects)					
14.30-15.00	Hamiltonian Vs Stability In Alternative Theories Of Gravity (Invited), Esposito-Farese, Gilles				
15.00-15.15	On The Local Well-Posedness Of Homdeski Theories, Kovács, Áron				
15.15-15.30	Well-Posed Cauchy Formulation For Einstein-Aether Theory, Sarbach, Oliver				
15.30-15.45	Positive Signs In Modified Gravity, Melville, Scott				
15.45-16.00	On Lorentz-Invariant Spin-2 Theories, Kimura, Rampei				
16.00-16.15	The Equivalence Principles And The Nature Of Gravitation, Holman, Marc				
16.15-16.30	Torsion In The Raychaudhuri Equations And In Spacetime Thermodynamics, Speziale, Simone				
Posters	Modified General Relativity And The Centenary Einstein Equations Unnikrishnan				
Posters	Metric And Metric-Affine Theories Of Mond With Curvature-Matter Couplings. Mendoza				
Posters	Eliminating Singularities Using Non-Einsteinian Phases: The Problem Of Closed Timelike Curves And Dirac Strings In Vacuum Gravity, Sengupta				
Posters	Collapsing Radiation Shells In Einstei-Gauss-Bonnet Gravity, Brassel				
A3: Modified theories of gravity (theoretical aspects)					
17.00-17.15	Posters				
17.15-17.30	Towards Scale Invariant Infinite Derivative Theory Of Gravity, Mazumdar, Anupam				
17.30-17.45	Non-Singular And Ghost-Free Infinite Derivative Theory With Torsion, Maldonado Torralba, Francisco José				
17.45-18.00	Nonlocal Generalizations Of Gravity And Galilean Theories, Buoninfante, Luca				
18.00-18.15	Testing Nonlocal Gravity With Lunar Laser Ranging, Finke, Andreas				
18.15-18.30	Lorentz Symmetry Breaking In Gravity, Petrov, Albert				
18.30-18.45	Constraints On Einstein-Aether Theory After GW170817, Wang, Anzhong				
18.45-19.00	Electromagnetism And Hidden Vector Fields In Modified Gravity Theories: Spontaneous And Induced Vectorization, Annulli, Lorenzo				

WEDNESDAY 10, JULY

Auditorium 2

A1: Exact solutions and their interpretation

14:30-14:45	The 2-Body Problem In 2+1 Spacetime Dimensions, Gundlach, Carsten				
14:45-15:00	Robinson-Trautman Solutions In (2+1) Dimensions, Saa, A.				
15:00-15:15	Petrov Type-N Solution For The Null-Surface Formulation Of General Relativity In 2+1 Dimensions, Harriott, Tina A.				
15:15-15:30	Exact Black-Hole Formation With A Conformally Coupled Scalar Field In Three Dimensions, Maeda, Hideki				
15:30-15:45	Extended Thermodynamics And Complexity In Gravitational Chern-Simons Theory, Frassino, A M				
15:45-16:00	Cclp Solution Obtained From A Modified Plebanski-Demianski Ansatz, Ferraro, R.				
16:00-16:15	Exact Solutions Of 5D Kaluza-Klein Model With Perfect Fluid Equation Of State, Singh, Vijay				
16:15-16:30	Evolution Of Thin Shells In D-Dimensional General Relativity, Ramirez, M. A.				
Posters					
	Wormholes Without Exotic Matter In Eddington-Inspired Born-Infeld Gravity, Shaikh, R				
	A Class Of Integrable Metrics Coupled To Gauge Fields, Almeida, G L				
	Cosmic Cable, Maclaurin, Colin				
	Static Conformal Models For Anisotropic Charged Fluids, Manjonjo Am				
	Embedding With Vaidya Geometry, Nikolaev, A. V.				
	Examples Of Naked Singularity Formation In Einstein Vacua, Zhang, Xuefeng				
	Embedding The Stationary Spacetimes Into Brans-Dicke Cosmology Via Conformal Transformations, Kazici, D				
	Rotating Black Holes In Eddington-Inspired Born-Infeld Gravity, Menchón, C.				
	Inhomogeneous, Massless Gauge Fields In Bianchi Cosmologies, Ben David Normann				

C5: LISA and other Spaced Based Detectors

17:00-17:15	GW Missions Using Ranging-With-Timing And Zaiga-Ce GW-Detection Prototype, Ni, Wei-Tou				
17:15-17:30	Verifying LISA Core Technology On Ground: A Hexagonal Optical Bench, Thomas Schwarze				
17:30-17:45	Phase Metrology System For LISA, Esteban Delgado				
17:45-18:00	Multiband GW Parameter Estimation: A Study Of Future Detectors, Grimm, S.				
18:00-18:15	Time-Delay Interferometry: Modeling And Simulating Laser Frequency Noise In LISA, Bayle, J.-B.				
18:15-18:30	Test Mass Charging And Discharging In LISA, Wass, Peter				
18:30-18:45	LISA Charge Management System: Discussion And On-Ground Testing Results, Russano, G				

WEDNESDAY 10, JULY

Auditorium 3A

A2: Mathematical relativity and classical gravitation

14:30-14:45	Ehlers-Kundt Conjecture About Gravitational Waves And Dynamical Systems, Flores, José Luis			
14:45-15:00	Strong Cosmic Censorship In Charged Black-Hole Spacetimes, Destounis, Kyriakos			
15:00-15:15	Separability In Kerr-Nut-(A)Ds Spacetime, Krtous, Pavel			
15:15-15:30	Stability Of The Milne Model With Matter, Fajman, David			
15:30-15:45	Globally Conserved Currents From Approximate Killing Vectors: Dynamics And Initial Data, Feng, Justin			
15:45-16:00	Smooth Gowdy-Symmetric Generalised Taub-Nut Solutions In Einstein-Maxwell Theory, Hennig, Joerg			
16:00-16:15	Gravitational Energy-Momentum And Thermodynamics, Acquaviva, Giovanni			
16:15-16:30	Poster.			

A2: Mathematical relativity and classical gravitation

17:00-17:15	Quasinormal Mode Orthogonality I: Bilinear Form On Hertz Potentials, Green, Stephen			
17:15-17:30	Quasinormal Mode Orthogonality II: Application To Kerr, Zimmerman, Peter			
17:30-17:45	Completeness of Local Gauge Invariant Observables On Cosmological And Black Hole Spacetimes, Igor Khavkine			
17:45-18:00	Pulsar Timing In Extreme Mass Ratio Binaries, Kimpson, Tom			
18:00-18:15	An Entropy-Area Law For Neutron Stars Near The Black Hole Threshold, Yunes, Nicolas			
18:15-18:30	Aspects Of The Negative Mode Problem In Quantum Tunneling With Gravity, Lavrelashvili, George			
18:30-18:45	Zermelo Navigation, Spacetimes And Finsler Geometry, Javaloyes, Miguel Angel			
18:45-19:00	Clouds In A Static Fluid, Benone, Carolina			

WEDNESDAY 10, JULY

Auditorium 3B

C6: Gravitational waves: Relativity and fundamental physics

14:30-14:45	Constraining The Neutron-Matter Equation Of State With Gravitational Waves, Forbes, M.			
14:45-15:00	Constraining Nuclear Matter Parameters With GW170817, Yagi, Kent			
15:00-15:15	The Tidal Deformability Of An Anisotropic Compact Star: Implications For GW170817, Biswas, Bhaskar			
15:15-15:30	Compact Star Of Holographic Nuclear Matter And GW170817, Lin, Feng-Li			
15:30-15:45	Parametrized Tests Of Gravity: From Stellar Structure To Gravitational Waves, Silva, Hector O.			
15:45-16:00	Tidal Resonance In Extreme Mass-Ratio Inspirals, Bonga, Beatrice			
16:00-16:15	Evolution Of Highly Eccentric Binary Orbits With Radiation Reaction, Tucker, A.			
16:15-16:30	Scattering Of Scalar, Electromagnetic, And Gravitational Waves From Binary Systems, Annulli, L.			

C6: Gravitational waves: Relativity and fundamental physics

17:00-17:15	Tests Of General With The Binary Black Hole Signals From The LIGO-Virgo Catalog GWTC-1, Cabero Müller, M			
17:15-17:30	Tests Of General Relativity With GW170817, Sennett, Noah			
17:30-17:45	Rapid Identification Of Continuous Gravitational-Wave Signals, La Rosa, Iuri			
17:45-18:00	Binary Pulsar Constraints On Massless Scalar-Tensor Theories Using Bayesian Statistics, Nicolas Yunes-Anderson, David			
18:00-18:15	Testing The Strong Equivalence Principle With Binary Pulsars And Gravitational Waves, Shao, Lijing			
18:15-18:30	Gravitational Radiation And The Evolution Of Gravitational Collapse In Cylindrical Symmetry, García-Parrado, Alfonso			

B2: NUMERICAL RELATIVITY

14:30-14:45	Studies Of Standing And Dissipative Shocks Around Rotating Black Holes. Soumen Mondal
14:45-15:00	Numerical Study On The Gregory-Laflamme Instability Of Black Strings By Using Ccz4 Formulation, Chenxia Gu
15:00-15:15	Non Linear Spherical Collapse With Relativistic Hydrodynamics In A Cosmological Background, François Staelens
15:15-15:30	Dendro-Gr: A Scalable Framework For Computational General Relativity, David Neilsen
15:30-15:45	Kerr Black Holes With Synchronised Scalar Hair And Higher Azimuthal Harmonic Index, Jorge Delgado
15:45-16:00	Analytical And Numerical Treatment Of Perturbed Black Holes In Horizon-Penetrating Coordinates, Maitraya Bhattacharyya
16:00-16:15	Bbh & "Em" Fields: Em Counterparts And Beyond Gr, Pablo Bosch
16:15-16:30	On The Asymptotics Of Initial Data By Evolutionary Solvers, Karoly Csukás

B2: NUMERICAL RELATIVITY

17:00-17:15	The Weak Null Condition In Free-Evolution: Dual Foliation Ghg With Constraint Damping, Edgar Gasperin
17:15-17:30	The Interior Of A Binary Black-Hole Merger, Daniel Pook-Kolb
17:30-17:45	Quick Bbh Merger Visualizations: Interpolating Numerical Apparent Horizons, Akshay Khadse
17:45-18:00	Numerical Studies Of Superradiant Instability In Kerr-Ads, Lorenzo Rossi



B1: RELATIVISTIC ASTROPHYSICS

14:30-14:45	Polarization Effects In The Kerr Space-Time, Pelykh Volodymyr
14:45-15:00	Dirac Stars In The Presence Of Maxwell And Proca Fields, Vladimir Dzhunushaliev
15:00-15:15	Relativistic Soundproof Models, I. Hawke
15:15-15:30	A Hyperbolic Theory Of Relativistic Conformal Dissipative Fluids, Luis Lehner
15:30-15:45	Charge Screened Boson Stars In A Spontaneous Broken U(1) Gauge Theory, Tatsuya Ogawa
15:45-16:00	Rotating Clumps Of Scalar Field Dark Matter, Miguel C. Ferreira
16:00-16:15	Hawking Radiation And Entropy Of A Black Hole In Modified Gravity From Quantum Tunneling Approach, Guqiang Li
16:15-16:30	General relativity and the rotation curves of UGC 128 and NGC 2403, Nadja Magalhaes

C6: GRAVITATIONAL WAVES: RELATIVITY AND FUNDAMENTAL PHYSICS

17:00-17:15	Parametrized Black Hole Quasinormal Ringdown, Berti, Emanuele
17:15-17:30	Generalized No-Hair Theorem For Ultracompact Alternatives To Black Holes, Barceló, C.
17:30-17:45	Black Hole Ringdown: The Importance Of Overtones, Giesler, Matthew
17:45-18:00	Black Hole Spectroscopy With Overtones, Isi, Maximiliano
18:00-18:15	Detectability Of The Second Mode In Binary Black Hole Ringdown, Bhagwat, Swetha
18:15-18:30	A Study On Quasinormal Modes In Gravitational Wave Signals, Keivani, Azadeh



B3: APPROXIMATIONS, PERTURBATION THEORY, AND THEIR APPLICATIONS

14:30-15:00	Classical Gravity From Quantum Loop, Pierre Vanhove
15:00-15:15	Energetics Of Two-Body Hamiltonians In Post-Minkowskian Gravity, Andre Antonelli
15:15-15:30	Spinning-Black-Hole Scattering And The Test-Black-Hole Limit At Second Post-Minkowskian Order, Justin Vines
15:30-15:45	Spin-Perturbed Orbits Near Black Holes, Vojtech Witzany
15:45-16:00	Black Hole Equations Of Motion In The Null Gauge With Back Reaction Due To Radiation, Osvaldo Moreschi
16:00-16:15	Spin And Center Of Mass Comparison Between The Pn Approach And The Asymptotic Formulation, Carlos Kozameh
16:15-16:30	Balance Equations For Linear Momentum And Center Of Mass Of Isolated Post-Newtonian Systems, Luc Blanchet



C5: SPACE BASED DETECTORS

14:30-15:00	LISA Science And The LISA Science Group, Elena Rossi
15:00-15:15	Time-Delay Interferometry And Clock Noise Calibration For LISA, Hartwig, O.
15:15-15:30	Extreme Mass Ratio Inspiral (Emri) Search Techniques For The LISA Mission, Key, J.S.
15:30-15:45	Acquiring The Inter-Satellite Laser Link In The Grace Follow-On Laser Ranging Interferometer, Francis, S
15:45-16:00	Progress With The Tianqin Project, Mei, Jianwei
16:00-16:15	Intermediate Mass Ratio Inspirals in Galactic Nuclei, Manuel Arca Sedda



C3: PROGRESS AND CHALLENGES IN ADVANCED GROUND BASED DETECTORS + C4: CONCEPTS AND RESEARCH FOR FUTURE DETECTORS

14:30-15:00	Gravitational Wave Astronomy With The Next Generation Of GW Observatories, Sathyaprakash, Bangalore
15:00-15:30	Cosmic Explorer, Matt Evans
15:30-16:00	Global Scenario: GWIC Activities, David Shoemaker
16:00-16:30	Einstein Telescope: The European 3Rd Generation Gravitational Wave Observatory, Michele Punturo



D2: GRAVITATIONAL ASPECTS OF STRING THEORY

14:30-15:00	Cosmic censorship in anti de Sitter spacetime, Gary Horowitz
15:00-15:15	Moduli space of five-dimensional supersymmetric black holes, James Lucietti
15:15-15:30	de Sitter holography and the t-bar deformation, Eva Silverstein
15:30-15:45	Black hole instabilities and violation of the weak cosmic censorship conjecture, Pau Figueras
15:45-16:00	Dynamics of black holes in a confining background, Hans Bantilan
16:00-16:15	Bulk Reconstruction of the Code Subspace, Sebastian Fischetti
16:15-16:30	Localised and nonuniform thermal states of sym on a circle, Oscar Dias



D3: CAUSAL SETS, CAUSAL DYNAMICAL TRIANGULATIONS, NON-COMMUTATIVE GEOMETRY, ASYMPTOTIC SAFETY, AND OTHER APPROACHES TO QUANTUM GRAVITY

14:30-15:00	Asymptotic Safety - Recent Achievements And Links To Other Approaches, Benjamin Knorr
15:00-15:15	Effective Self-Consistent Solutions From Asymptotically Safe Gravity, Alessia Platania
15:15-15:30	Singularity Avoidance For Collapsing Quantum Dust In The Lemaître-Tolman-Bondi Model, Tim Schmitz
15:30-15:45	Perturbatively renormalizable quantum gravity, Tim Morris
15:45-16:00	Simulating Non-Commutative Geometries - A Focused Talk On Fuzzy Geometries, Lisa Glaser
16:00-16:15	Exploring Quantum Ricci Curvature In Nonperturbative Quantum Gravity, Renate Loll
16:15-16:30	Noncommutative Gravity With Self-Dual Variables, Mairi Sakellariadou



D4: QUANTUM FIELDS IN CURVED SPACE-TIME, SEMICLASSICAL GRAVITY, QUANTUM GRAVITY PHENOMENOLOGY, AND THEORETICAL ASPECTS OF ANALOGUE GRAVITY

14:30-14:45	Phenomenological Aspects Of Black Holes Beyond General Relativity, Stefano Liberati
14:45-15:00	Metrology Of Horizons, Raul Carballo—Rubio
15:00-15:15	Singularity Avoidance: Possibilities And Implications, Francesco Di Filippo
15:15-15:30	Quantum Strong Energy Inequality And The Hawking Singularity Theorem, Eleni-Alexandra Kontou
15:30-15:45	Semiclassical Stellar Hydrostatic Equilibrium, Julio Arrechea
15:45-16:00	Echoes From The Abyss: A Highly Spinning Black Hole Remnant For The Binary Neutron Star Merger GW170817, Jahed Abedi
16:00-16:15	Probing Quantum Gravity With Gravitational Waves, Antonino Marciano
16:15-16:30	A Self-Consistent Analysis Of Black Hole Horizons, Daniel Terno

D4: QUANTUM FIELDS IN CURVED SPACE-TIME, SEMICLASSICAL GRAVITY, QUANTUM GRAVITY PHENOMENOLOGY, AND THEORETICAL ASPECTS OF ANALOGUE GRAVITY

17:00-17:15	Quantum Effects In Gravitational Collapse And Black Hole Evaporation, Sebastian Murk
17:15-17:30	Energy-Momentum Tensor And Metric Near The Schwarzschild Sphere, Sebastian Murk
17:30-17:45	A Self-Consistent Description Of Time Evolution Of Black Holes Including Collapsing Matter And Hawking Radiation, Yuki Yokokura
17:45-18:00	Particle Creation In Gravitational Collapse To A Horizonless Compact Object, Tomohiro Harada
18:00-18:15	Semiclassical Gravity Effects Near Horizon Formation, Valentin Boyanov
18:15-18:30	Correlation And The Black Hole Information Loss Paradox, Qingyu Cai
18:30-18:45	Volume Inside Old Black Hole, Or How To Store Our Universe Inside A Ping Pong Ball, Tommaso De Lorenzo



THURSDAY 11 JULY

AUDITORIO 1

9:00-9:50 The future of ground-based gravitational-wave detection: instruments and science, Lisa Barsotti.

9:50-10:40 Progress in analytic methods for the two-body problema in gravity, Rafael Porto.

10:40-11:10	Coffee Break
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11:10-12:00 Analogue Hawking radiation?, Matt Visser.

12:00-12:50 Black Hole dynamics at large D, Shiraz Minwalla

12:50-14:30 Lunch Break

A3: Modified theories of gravity (theoretical aspects)

14.30-15.00 Can We Probe Planckian Corrections At The Horizon Scale With Gravitational Waves?, Yunes, Nicolas

15.00-15.15 Second Law Protection Theorem For Lorentz-Violating Black Holes, Louko, Jorma

15.15-15.30 Angular Momentum Loss For A Binary System In Einstein-Aether Theory, Saffer, Alexander

15.30-15.45	Gravitational Waves In Massive Gravity: Waveforms From Extreme-Mass-Ratio Mergers, Maselli, Andrea
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15.45-16.00 Nonlinear Dynamics Of Horndeski Theories In Spherical Collapse, Ripley, Justin

16.00-16.15 Gravitational Collapse In Bimetric Gravity, Högbås, Marcus

ISGRG Assembly - Auditorium 1

THURSDAY 11, JULY

AUDITORIUM 2

A3- Auditorio 2: Modified theories of gravity (theory room 3+4)

Posters	Gravitational Waves From Black Hole Binaries In Quadratic Gravity, Kim					
Posters	On The Solutions Of The Einstein-Hilbert And Gauss-Bonnet Metric-Affine, Lagrangians Jiménez					
Posters	Compact Scalar Objects In Ricci-Based Modified Gravity Theories, Afonso					
Posters	Degrees Of Freedom And Hamiltonian Formalism For $F(T)$ Gravity, Ferraro					
Posters	Tachyonic Scalar Fields And Black Hole Geometry, Deshamukhya					
Posters	Radion Stabilization In Higher Curvature Warped Spacetime, Sengupta					
Posters	Projective Invariance In $F(T)$ Gravity, Bejarano					
Posters	Curvature-Matter Coupling And Anisotropic Strange Stars, Sharif					
Posters	A General Correspondence Between Ricci Based Theories And General Relativity, Orazi					
17.15-17.30	Experimental Relativity With Observations Of The Accretion Disk Continuum Spectrum Cardenas-Avendano, Alejandro					
17.30-17.45	Axial Quasi-Normal Modes Of Neutron Stars In Massive Scalar-Tensor Theory Altaha Motahar, Zahra					
17.45-18.00	Neutron Stars In Quadratic $F(R)$ Theories Of Gravity Jimenez Forteza, Xisco					
18.00-18.15	Gravitational Radiation From Binary Neutron Stars In A Fourth Order Gravity Model Bera, Sayantani					
18.15-18.30	Distinguishing Between General Relativity And Modified Theories Of Gravity Using Quasi-Normal Modes Bhattacharyya, Soham					

THURSDAY 11, JULY

AUDITORIO 3A

C6: Gravitational waves: Relativity and fundamental physics

14:30-14:45	Testing The Multipole Structure Of Compact Binaries Using Gravitational Wave Observations, Kastha, Shilpa					
14:45-15:00	A Bayesian Method To Test The Binary Black Hole Nature Of Gravitational Wave Events By Measuring Spin-Induced Quadrupole Moments, Krishnendu N V.					
15:00-15:15	Hidden-Sector Modifications To Gravitational Waves From Binary Inspirals, Alexander, Stephon					
15:15-15:30	Constraining Parity Violation In Gravity With Compact Binary Mergers, Remya Nair					
15:30-15:45	Probing Parity Violation With Spin-Precessing Binaries, Loutrel, Nicholas					
15:45-16:00	Constraints On Higher-Order Curvature Corrections Using Gravitational Wave Observations, Sennett, Noah					
16:00-16:15	Exploring Strong Field Deviations From General Relativity Via Gravitational Waves, Trevino, Gabriel					
16:15-16:30	Probing The Accretion Disk With The Gravitational Wave, Mondal Soumen					

A2: Mathematical relativity and classical gravitation

17:00-17:15	Gowdy Spacetimes With A Positive Cosmological Constant, Knopik, Jerzy					
17:15-17:30	Surface Charges In Tetrad Variables, Speziale, Simone					
17:30-17:45	On Necessary And Sufficient Conditions For Strong Hyperbolicity, Reula, Oscar					
17:45-18:00	Near Horizon Geometry Equation, Degenerate Killing Horizons, Lewandowski, Jerzy					
18:00-18:15	Gr Computations With The Python-Based Free Computer Algebra System Sagemath, Gourgoulhon, Eric					
18:15-18:30	Thermodynamics And Gravity, Santiago, Jessica					
18:30-18:45	New Thermodynamic Identities For Five-Dimensional Black Holes, Lucietti, James					
18:45-19:00	Absorption Of Electromagnetic Plane Waves By Rotating Black Holes, Crispino, Luis					

THURSDAY 11, JULY

AUDITORIO 3B

C2: Gravitational waves: Searches, data analysis, parameter estimation and multi-messenger astronomy

14:30-14:45	Enriching The Symphony Of Gravitational Waves From Binary Black Holes By Tuning Higher Harmonics, Cotesta, Roberto							
14:45-15:00	The Phenomx Suite Of Phenomenological Waveform Models, Pratten, Geraint							
15:00-15:15	Parameter Estimation With Higher Modes And Precession, Khan, Sebastian							
15:15-15:30	Phenomenological Models Of Neutron Star Black Hole Binaries, Thompson, Jonathan							
15:30-15:45	A Black Hole Waveform Generator Trained On Numerical Relativity Waveforms, Williams, D.							
15:45-16:00	Gravitational Wave Luminosity Peak Of Compact Binary Mergers, Zappa, F.							
16:00-16:15	Are Current Binary Black Hole Waveforms Accurate Enough For Future Detectors? Pürrer, Michael							
16:15-16:30	Python Reduced Order Quadrature Builder Pyroq And Fast Inference On GWs From Eccentric Compact Binaries, Hong Qi							
C2: Gravitational waves: Searches, data analysis, parameter estimation and multi-messenger astronomy								
17:00-17:15	Observational Black Hole Spectroscopy: A Time-Domain Multimode Analysis Of GW150914, Carullo, Gregorio							
17:15-17:30	All-Sky Search For Continuous Gravitational Waves From Boson Clouds Around Stellar Mass Black Holes, Palomba, C							
17:30-17:45	Reanalysis Of Black Hole Echoes, Tanaka, Takahiro							
17:45-18:00	Search Methods For Ultralight Scalar Field Dark Matter With Gravitational-Wave Detectors And Its Detectability, Morisaki, S							
18:00-18:15	Measurement Of Sub-Dominant Harmonic Modes For Gravitational Wave Emission From A Population Of Binary Black Holes, Klimentko, S.							
18:15-18:30	More On The Tests Of Gravity Using Gravitational-Waves Data, Yamada, Kei							
18:30-18:45	The Optimal Filter For Testing General Relativity With Gravitational Waves, Capano, Collin							
18:45-19:00	Search For Gravitational-Wave Signals Produced By Cosmic Strings In The Advanced Ligo-Virgo Data, Belahcene, Imène							

**THE PARALLEL SESSIONS
AFTER COFFEE BREAK IN THIS ROOM
WILL BE IN AUDITORIUM 2**



**THE PARALLEL SESSIONS
AFTER COFFEE BREAK IN THIS ROOM
WILL BE IN AUDITORIUM 2**



C5: LISA AND SPACE BASED DETECTORS

14:30-14:45	Photodetection In LISA, Fernandez Barranco, G
14:45-15:00	Analysis Of Tianqin Science Objectives, Wang, Hai-Tian
15:00-15:15	Detecting Bodies Orbiting The Galactic Center Black Hole Sgr A* With LISA, Gourgoulhon, E.
15:15-15:30	Magnetic Experiments On-Board Lisapathfinder, López-Zaragoza, J P
15:30-15:45	LISA Laser System Design, Strategy And Verification, L. Mondin
15:45-16:00	Towards Multimessenger Astronomy In The LISA Era, Marka, Zsuzsa

C5: LISA AND SPACE BASED DETECTORS

17:00-17:15	ExtremeBinary White Dwarfs As Laboratories For Extreme Gravity With LISA, Littenberg, Tyson B.
17:15-17:30	Extreme-Mass-Ratio Inspirals Produced By Tidal Capture Of Binary Black Holes, Chen, X.
17:30-17:45	Proposed LISA Telescope Design, Livas, J.
17:45-18:00	Investigating An Optimal Backlink Candidate for LISA, L. Bischof
18:00-18:15	Space-Based Gravitational Wave Detector Simulation Architecture For Noise Coupling Analysis And System Optimization—Current Status And Future Development, Zhang Y.Z.
18:15-18:30	Prospects For Identifying Near-Extremal Black Holes Using LISA, Burke, O



C7: MULTI-MESSENGER ASTRONOMY OF GRAVITATIONAL WAVE SOURCES

14:30-15:00	The Observational Prospects For GW Em Follow-Up And Engrave, Susanna Vergani
15:00-15:15	The Italian Follow-Up Observations Of GW Triggers In The Multi-Messenger Era, Silvia Piranomonte
15:15-15:30	The Toros Collaboration Optical Follow-Up Of Gravitational Wave Transients, Mario Claudio Diaz
15:30-15:45	Host Galaxies Of Merging Compact Objects, María Celeste Artale
15:45-16:00	Magnetically Driven Explosions And Black Hole Formation In Stellar Core Collapse, Martin Obergaulinger
16:00-16:15	Birth, Life And Death Of Black Hole Binaries In Galactic Nuclei, Manuel Arca Sedda
16:15-16:30	Astrophysical Signal Of Primordial Black Hole Explosions, Francesca Vidotto

C7: MULTI-MESSENGER ASTRONOMY OF GRAVITATIONAL WAVE SOURCES

17:00-17:15	The Transient High-Energy Sky And Early Universe Surveyor (Theseus), Lorenzo Amati
17:15-17:30	The Key-Role Of Theseus For Multi-Messenger Astrophysics, Giulia Stratta
17:30-17:45	Multi-Messenger Astronomy With Lisa And Athena, Paul Mcnamara
17:45-18:00	Detectability Of Modulated X-Rays From Lisa'S Supermassive Black Hole Mergers, Tito Dal Canton
18:00-18:15	Investigating The Variability Of Accreting Binary Black Holes, Scott Noble
18:15-18:30	Gravitational Wave Emission By Common-Envelope Evolution Of Binary Stars, Yonadav Barry Ginat



B3: APPROXIMATIONS, PERTURBATION THEORY, AND THEIR APPLICATIONS

14:30-15:00	Uv And Ir Divergencies In The Post-Newtonian Expansion, Stefano Foffa
15:00-15:15	Two Body Dynamics In The Post-Newtonian Approximation Beyond Fourth Perturbative Order, Riccardo Sturani
15:15-15:30	GW Generation At The 4Th Post-Newtonian Order, François Larrouturou
15:30-15:45	Tidal Effects Up To Second Post-Newtonian Order In Inspiralling Binary Neutron-Star Systems, Quentin Henry
15:45-16:00	The Impact Of Approximations And Uncertainties On Binary Black Hole Waveform Models, Mark Hannam
16:00-16:15	Towards A New Multipolar Description Of Gravitational Waves From Binary Black Holes, Lionel London
16:15-16:30	Recent Progress In Teobresums, Sarp Akcay

B3: APPROXIMATIONS, PERTURBATION THEORY, AND THEIR APPLICATIONS

17:00-17:30	The Eccentric Behavior Of Inspirling Compact Binaries, Nicholas Loutrel
17:30-17:45	A Gravitational Wave Model For Non-Spinning Binaries With Moderate Eccentricity, Nicolas Yunes
17:45-18:00	Theory-Agnostic Modeling Of Dynamical Scalarization In Binary Systems, Mohammed Khalil
18:00-18:15	Enhancing Gravitational Waveform Models, Yoshinta Eka Setyawati
18:15-18:30	Rotational Instabilities Of Neutron Stars, Kostas Kokkotas



C1: PULSAR TIMING ARRAYS

15:00-15:15	Status of the North American nanohertz observatory for gravitational waves, Timothy Pennucci
15:15-15:30	IPTA data release 2: Preliminary limits on a stochastic background of GWs from SMBH binaries, Paul Baker
15:30-15:45	Realistic sensitivity curves for pulsar timing arrays, Jeffrey Hazboun
15:45-16:00	Constraining galaxy and black hole binary mergers with pulsars, Siyuan Chen
16:00-16:15	The MeerTime key science project on pulsar timing, Matthew Bailes
16:15-16:30	Prospects for gravitational wave astronomy with next generation large-scale pulsar timing arrays, Yan Wang

C1: PULSAR TIMING ARRAYS

17:00-17:15	Impact of planetary ephemerides on gravitational wave searches with pulsar timing arrays, Aurelien Chalumeau
17:15-17:30	The Geometry of the PTA Ephemeris Error Problem, Elinore Roebber
17:30-17:45	Model selection for spin noise in pulsar timing arrays, Boris Goncharov
17:45-18:00	Testing theories of gravity with relativistic binary pulsars, Vivek Venkatraman Krishnan
18:00-18:15	Testing anisotropic spacetimes with an array of pulsars, Lijing Shao
18:15-18:30	PPTA constraints on fuzzy dark matter, Nataliya Porayko
18:30-18:45	Cosmological sources, Xavier Siemens
18:45-19:00	Sensitivity of Pulsar Timing Arrays towards Polarizations of Gravitational Waves, Adrian Boitier



C10: MEASUREMENTS OF G

14:30-14:45	Gravimetry on the milliscale - 100mg as a source mass, Tobias Westphal
14:45-15:15	Precision Measurement Of The Gravitational Constant G With Two Independent Methods Jun Luo
15:15-15:30	The Measurement Of Big G - A Historical Overview, Christian Rothleitner
15:30-15:45	Update On The Work At Nist On The Determination Of Newton'S Constant, G, Using The Bipm 2013 Apparatus, Clive Speake
15:45-16:00	Moiré Neutron Interferometer For Precision Measurement Of G, Dusan Sarenac
16:00-16:15	Towards A Better Determination Of Big G, Muchuan Hua
16:15-16:30	Speed as the source of the gravitation field, Julio Pérez



D2: GRAVITATIONAL ASPECTS OF STRING THEORY

14:30-15:00	Cosmic censorship violation in black hole collisions in higher dimensions, Roberto Emparan
15:00-15:15	Negative Energies in String Theory: Limitations and effects on traversable wormholes, Donald Marolf
15:15-15:30	Shiraz Minwalla
15:30-15:45	Novel supersymmetric black holes in ADS, Jorge Santos
15:45-16:00	Merging horizons at Large D, Ryotaku Suzuki
16:00-16:15	Black holes as black blobs on a black membrane, David Licht
16:15-16:30	Holographic fermions in striped phases, Li, Li

D2: GRAVITATIONAL ASPECTS OF STRING THEORY

17:00-17:30	Holographic thermodynamics of accelerating black holes, David, Kubiznak
17:30-17:45	Holographic phase transitions, Thanasis Giannakopoulos
17:45-18:00	Emergent Dark Universe and the Swampland Criteria, Yun-Long Zhang
18:00-18:15	Supersymmetric rotating black holes in gauged supergravity and string theory, Alejandro Ruipérez
18:15-18:30	Quantum Corrected Black Holes from String T-Duality, Michael Wondrak
18:30-18:32	Posters Xu Xiao-Bao, Entanglement Entropy in JT CFT_2
18:32-18:34	Posters Mo Jie-Xiong, Effects of Lovelock gravity on the Joule-Thomson expansion



D3: CAUSAL SETS, CAUSAL DYNAMICAL TRIANGULATIONS, NON-COMMUTATIVE GEOMETRY, ASYMPTOTIC SAFETY, AND OTHER APPROACHES TO QUANTUM GRAVITY

14:30-15:00	A status report on Causal Set Theory, Sumati Surya
15:00-15:15	Studies on the SJ vacuum in de Sitter spacetime, Nomaan X
15:15-15:30	Some features of the Hamiltonian analysis of Asymptotic Safe Quantum Gravity, Gabriele Gionti S.J.
15:30-15:45	Causal dynamical triangulations on a torus, Jakub Gizbert-Studnicki
15:45-16:00	Geometric flux formula for the gravitational Wilson loop, M.C.A. Reitz
16:00-16:15	State space renormalization in 1+1 CDT, Susanne Lanery

D3: CAUSAL SETS, CAUSAL DYNAMICAL TRIANGULATIONS, NON-COMMUTATIVE GEOMETRY, ASYMPTOTIC SAFETY, AND OTHER APPROACHES TO QUANTUM GRAVITY

17:00-17:15	Hopf-algebraic deformations of 3D spacetime symmetries, Tomasz Trzesniewski
17:15-17:30	Proposal for a new quantum theory of gravity, Tejinder Singh
17:30-17:45	The case for emergent gravity, Joshua Erlich
17:45-17:47	Poster Jan Novak: Breaking nonlinear graviton with plabic graphs



D4: QUANTUM FIELDS IN CURVED SPACE-TIME, SEMICLASSICAL GRAVITY, QUANTUM GRAVITY PHENOMENOLOGY, AND THEORETICAL ASPECTS OF ANALOGUE GRAVITY

14:30-14:45	Scattering Of Co-Current Surface Waves On An Analogue Black Hole, Scott Robertson
14:45-15:00	Effective Self-Consistent Solutions From Asymptotically Safe Gravity, Alessia Platania
15:00-15:15	Small Scale Structure Of Spacetime And It'S Ramifications, Dawood Kothawala
15:15-15:30	Unitarity And Information In Quantum Gravity: A Simple Example, Lautaro Amadei
15:30-15:45	Searching For A Fundamental Equation For Quantum Gravity, Tatyana Shestakova
15:45-16:00	An Optical Analogue Of Gravity-Induced Instabilities, Caio Ribeiro
16:00-16:15	Traces Of The Unruh Effect In Surface Waves, Joao Paulo Cardoso Ramos Rodrigues
16:15-16:30	Proposal For Observing The Unruh Effect Using Classical Electrodynamics, Gabriel Cozzella

D4: QUANTUM FIELDS IN CURVED SPACE-TIME, SEMICLASSICAL GRAVITY, QUANTUM GRAVITY PHENOMENOLOGY, AND THEORETICAL ASPECTS OF ANALOGUE GRAVITY

17:00-17:15	Subtleties Of Different Approaches To Electromagnetic Analogue Space-Times, Sebastian Schuster
17:15-17:30	Experimental Evidence For Radiation Reaction Thermalized At The Fulling-Davies-Unruh Temperature, Morgan Lynch
17:30-17:45	Rindler Quench In Curved Spacetime And In The Laboratory, Jorma Louko
17:45-18:00	Rogue Waves In Selfgravitating Bec, Sandro Gödtel
18:00-18:15	Pair Creation Induced By Electric And Gravitational Fields, Silvia Pla García
18:15-18:30	Adiabatic Invariance In The Creation Of Particles By Gravitational And Electromagnetic Fields, Pau Beltrán-Palau
18:30-18:45	Handedness Of Photons And Gravitational Wave Polarization, Adrián Del Rio Vega



FRIDAY 12, JULY

AUDITORIO 1

9:00-9:50	Loop quantum gravity: basics and some recent advances, Abhay Ashtekar.						
9:50-10:40	Particle Physics Beyond Colliders, Asimina Arvanitaki.						
10:40-11:10	Coffee Break						
11:10-12:00	Imaging the event horizon in the Galactic center and M87, Heino Falcke.						
12:00-12:50	From LISA Pathfinder to LISA: preparing for gravitational wave observation from space, William Joseph Weber.						
12:50-14:30	Lunch Break						
C2: Gravitational waves: Searches, data analysis, parameter estimation and multi-messenger astronomy							
14:30-14:45	Results Of The Recent Search For An Isotropic Stochastic Background Using Advanced LIGO Data, Whiting, B. F.						
14:45-15:00	Anisotropies In The Stochastic Gravitational-Wave Background, Sakellariadou, M						
15:00-15:15	Searching For The Stochastic Gravitational Wave Background With Advanced LIGO And Advanced Virgo, Mandic, Vuk						
15:15-15:30	Gravitational Waves From Core-Collapse Supernovae, Andresen, Haakon						
15:30-15:45	Towards Asteroseismology Of Core-Collapse Supernovae With Gravitational Wave Observations, Cerdá-Durán, P.						
15:45-16:00	Universal Relations Of Core-Collapse Supernova With Gravitational Waves, Torres-Forné, A						
16:00-16:15	Detecting And Reconstructing Unmodeled Gravitational Waves With The Bayeswave Algorithm, Millhouse, M.						
16:15-16:30	Searching For Long-Duration Gravitational Wave Transients From Glitching Pulsars, Keitel, David						
C2: Gravitational waves: Searches, data analysis, parameter estimation and multi-messenger astronomy							
17:00-17:15	Search For Gravitational Waves With Short Time Duration In The Advanced LIGO And Virgo, Drago, M						
17:15-17:30	Full Coherent Searches For Continuous Gravitational Waves With The LIGO Second Observing Run, Mastrogiovanni, S.						
17:30-17:45	Loosely Coherent Searches For Continuous Waves, Dergachev, Vladimir						
17:45-18:00	A Directed Search Of Continuous Wave Signals From The Galactic Center In Advanced LIGO'S Second Observing Run, Piccinni, O. J.						
18:00-18:15	Directional Model-Independent Search For Persistent Gravitational Waves In Advanced LIGO'S Data From The First Two Observing Runs, Goncharov, B						
18:15-18:30	LIGO-Virgo Searches For Gravitational Waves From Scorpius X-1, Whelan, John T.						
18:30-18:45	Einstein@Home Search For Continuous Gravitational Waves From Vela Jr, Cassiopeia A And G347.3, Ming, J.						
18:45-19:00	All-Sky Search For Continuous Gravitational Waves From Isolated Neutron Stars Using Advanced LIGO O2 Data, Covas, Pep						

FRIDAY 12, JULY

AUDITORIO 3A

A2: Mathematical relativity and classical gravitation

14:30-14:45	Asymptotic Behavior Of Massless Fields And The Memory Effect, Satishchandran, Gautam		
14:45-15:00	(A)Ds In Bondi Gauge, Poole, Aaron		
15:00-15:15	The Hyperbolic Einstein-Rosen Bridge, Beltrán-Palau, Pau		
15:15-15:30	Boson Clouds Around Rotating Black Holes: Obstacles In Generalizing The No-Hair Theorems, Salgado, Marcelo		
15:30-15:45	Trajectory Of Light Ray Due To A Charged Body Via Optical Medium Approach, Roy, Saswati		
15:45-16:00	Isolated Horizons And The Petrov Type D Equation, Dobkowski-Rylko, Denis		
16:00-16:15	Conserved Charges In Asymptotically De Sitter Spacetimes, Hoque, Sk Jahanur		

FRIDAY 12, JULY

AUDITORIO 3B

C6: Gravitational waves: Relativity and fundamental physics

14:30-14:45	Testing Gravity At Cosmological Distance With Gravitational-Wave Propagation, Nishizawa, Atsushi			
14:45-15:00	Model-Agnostic Test On Gravitational-Wave Polarizations, Pang, P. T. H.			
15:00-15:15	Fate Of Extra Dimensions In Light Of GW170817, Chakraborty, S.			
15:15-15:30	The Stochastic Gravitational-Wave Background In The Absence Of Horizons, Brito, Richard			
15:30-15:45	Axion Cloud Around Supermassive Black Holes And Its Astrophysical Implications, Yang, Huan			
15:45-16:00	Gravitational Waves Of Triple System In Einstein-Aether Theory, Wang, Anzhong			
16:00-16:15	Continuous Gravitational Waves From Magnetized White Dwarfs And Neutron Stars: Missions For LISA, Decigo, Bbo, Mukhopadhyay, Banibrata			
16:15-16:30	Non-Local Stars As Blackhole Mimickers, Mazumdar, Anupam			
C6: Gravitational waves: Relativity and fundamental physics				
17:00-17:15	Testing The Area Quantisation Hypothesis From Black Hole Ringdown Signals, Danny Laghi			
17:15-17:30	Instability Of Exotic Compact Objects And Its Implications For Gravitational-Wave Echoes, Chen, Baoyi			
17:30-17:45	Tails And Tails Of Tails: Probing Event Horizon Via Gravitational Waves, Abedi, Jahed			
17:45-18:00	Exotic Compact Objects: Ergoregion Instability, Ringdown And Echoes, Maggio, Elisa			
18:00-18:15	Gravitational Echoes From Exotic Compact Objects, Addazi, Andrea			
18:15-18:30	Anisotropic Stars As Ultracompact Objects In General Relativity, Raposo, G.			