

	MONDAY (2 JULY)	TUESDAY (3 JULY)	THURSDAY (5 JULY)	FRIDAY (6 JULY)
	Discussions on plenary lectures at Aula Magna	Discussions on plenary lectures at Aula Magna	Discussions on plenary lectures at Aula Magna	Discussions on plenary lectures at Aula Magna
AC – Accretions	AC1 A - Sandip Chakrabarti Spectral and Temporal properties of Black Holes and neutron stars and the theoretical models	AC1 B - Sandip Chakrabarti Spectral and Temporal properties of Black Holes and neutron stars and the theoretical models	AC3 A – Eva Hackmann and Audrey Trova Accretion discs and jets	AC3 B – Eva Hackmann and Audrey Trova Accretion discs and jets
BH – Black Holes	BH2 A– Alexander Zakharov Theoretical and observational studies of astrophysical black holes	BH2B– Alexander Zakharov Theoretical and observational studies of astrophysical black holes	BH2 C– Alexander Zakharov Theoretical and observational studies of astrophysical black holes	BH2 D – Alexander Zakharov Theoretical and observational studies of astrophysical black holes
BH – Black Holes	BH5 A - Hernando Quevedo Black hole thermodynamics	BH5 B - Hernando Quevedo Black hole thermodynamics	BH7 A – Jutta Kunz Black Holes in Higher Dimensions (Black Rings and Black Strings)	BH7 B + BH8 - Jutta Kunz, Jeff Steinhauer Black Holes in Higher Dimensions (Black Rings and Black Strings) Hawking radiation in analogue black-holes
AT – Alternative Theories	AT1 A - Salvatore Capozziello + Mariafelicia De Laurentis Extended Theories of Gravity and Quantum Cosmology	AT1 B - Salvatore Capozziello + Mariafelicia De Laurentis Extended Theories of Gravity and Quantum Cosmology	AT1 C - Salvatore Capozziello + Mariafelicia De Laurentis Extended Theories of Gravity and Quantum Cosmology	AT1 D - Salvatore Capozziello + Mariafelicia De Laurentis Extended Theories of Gravity and Quantum Cosmology
AT – Alternative Theories		AT2 - Shadi Tahvildar-Zadeh e Michael Kiessling The Einstein-Infeld-Hoffmann Legacy in Mathematical Relativity	AT1 E - Salvatore Capozziello + Mariafelicia De Laurentis Extended Theories of Gravity and Quantum Cosmology	AT1 F - Salvatore Capozziello + Mariafelicia De Laurentis Extended Theories of Gravity and Quantum Cosmology
AT – Alternative Theories AC – Accretions	AT3 A - Francisco Lobo + Diego Rubiera-Garcia Wormholes, Energy Conditions and Time Machines	AT3 B - Francisco Lobo + Diego Rubiera-Garcia Wormholes, Energy Conditions and Time Machines	AC2 - Sergey Moiseenko MHD processes near compact objects	AT5 - Marcus Werner Constructive gravity
AT – Alternative Theories	AT7 A - Stefano Bellucci, Valerio Faraoni and Orlando Luongo Theories of gravity: alternatives to the cosmological and particle standard models	AT7 B - Stefano Bellucci, Valerio Faraoni and Orlando Luongo Theories of gravity: alternatives to the cosmological and particle standard models	AT4 A - Michael Volkov "Massive gravity and related modifications of General Relativity"	AT4 B - Michael Volkov "Massive gravity and related modifications of General Relativity"
AT – Alternative Theories DM – Dark matter	DM1 A - Nikolaos Mavromatos Interacting Dark matter	DM1 B – Carlos Argüelles Interacting Dark matter	DM4 – Marco Merafina Self Gravitating Systems and Dark Matter	AT6 - Eric Bergshoeff Applied Newton-Cartan Geometry
DE – Dark Energy and LSS CM – Cosmic Microwave	DE1 A - Alexei Starobinsky + David Polarski Dark Energy and the accelerating universe	DE1 B - Alexei Starobinsky + David Polarski Dark Energy and the accelerating universe	CM4 B - Joan Solà Peracaula and Luca Amendola Tensions on LCDM cosmological model and model-independent constraints	DE2 – Radouane Gannouji and Clement Stahl Dark Energy and Large Scale structure
CM – Cosmic Microwave PT – Precision Tests	CM5 A - Marco Bersanelli and Aniello Mennella Present and future of CMB observations	CM4 A - Joan Solà Peracaula and Luca Amendola Tensions on LCDM cosmological model and model-independent constraints		PT6 – Meike List Fundamental physics in Space
DE – Dark Energy and large scale structure CM – Cosmic Microwave		CM5 B - Marco Bersanelli and Aniello Mennella Present and future of CMB observations		DE1 C - Alexei Starobinsky + David Polarski Dark Energy and the accelerating universe
CM – Cosmic Microwave		CM3 – Jens Chluba Future Steps in Cosmology with CMB Spectral Distortions		
GW – Gravitational Waves	GW1 A - Andrew Melatos Sources of Gravitational Waves	GW1 B - Andrew Melatos Sources of Gravitational Waves	GW6 + GW5 - Niegel Bishop, Masaki Ando The Role of Numerical Relativity in Gravitational Wave Observations DECIGO	
GW – Gravitational Waves PT – Precision Tests	GW7 - Giovanni Losurdo Ground-based detectors: from second to third generationm	GW4 - Wei-Tou Ni Middle-Frequency (0.1 Hz to 10 Hz)Gravitational Wave (GW) Detection and its Sources	GW9 – Sergio Frasca + Paola Leaci Advanced Data-Analysis Techniques for Gravitational-Wave Detection	PT4 C - Victor Flambaum + Yevgeny Stadnik Variation of the fundamental constants, violation of the fundamental symmetries and dark matter
GB – Gamma Ray Burst	GB4 - Gregory Vereshchagin + Damien Begue Photospheric emission in GRBs	GB3 - Lorenzo Amati + Massimo Della Valle + Paul O'Brien Cosmology and multi-messenger astrophysics with Gamma-Ray Bursts	GB7 – Jonathan Granot Lessons from GW170817 / GRB170817A	
CM – Cosmic Microwave GB – Gamma Ray Burst BN - Binaries	CM2 - Carlo Burigana Cosmic Backgrounds from radio to far-IR	GB1 - Bing Zhang + Duncan Lorimer Fast radio bursts: observations, ideas and prospects	BN8 - Vladimir Lipunov Relativistic Binary Stars Merging: Population Synthesis &/or Multimessenger Observations	GB6 – Francesco Longo GeV emission from Gamma Ray Bursts
GB – Gamma Ray Burst BN - Binaries	GB8 - Binbin Zhang and Yu Wang GRB 130427A, 160509A, 160625B, The Polar View of BdHNe Morphology	GB9 - Grant Mathews GRB 151027A and GRB 090618, the equatorial view of BdHNe	BN3– Jorge Rueda and Chris Belczynski NS-NS and NS-WD mergers and kilonovae	GB11 - She-Sheng Xue and Carlo Luciano Bianco Plasma acceleration and transparency in GRBs
EU – Early Universe ES – Exact Solutions	EU2 A - Vladimir Belinski Quantum Fields	EU2 B – Alexander Kamenshchik Quantum Fields	EU2 C – Andrei Lebed Quantum Fields	ES1 - George Alekseev + Fabio Briscese Exact Solutions in Four and Higher Dimensions: Mathematical Aspects
ES – Exact Solutions QG – Quantum Gravity	ES3 - Susan Scott Exact Solutions (including higher dimensions)	QG2 B - Giovanni Amelino-Camelia Quantum Gravity Phenomenology	QG3 - Parampreet Singh + Jorge Pullin Loop quantum gravity: cosmology and black holes	QG1 - Jerzy Lewandowski + Marcin Kisielowski Loop Quantum Gravity
NS – Neutron Stars QG – Quantum Gravity	QG2 A - Giovanni Amelino-Camelia Quantum Gravity Phenomenology	NS1 + NS2 - Jorge Rueda, Rodrigo Negreiros, Aurora Perez Martínez Observational Constraints on the Micro and Macroscopic Properties of Compact Stars New States of Matter in the Universe – From quarks to the Cosmos	NS3 - Debora Peres Menezes + Constança Providência Different aspects of the QCD phase diagram investigated with hadronic models	NS4 – Andrea Possenti Pulsars’ methodology for fundamental physics
PT – Precision Tests	PT2 A - Perlick Volker + Oleg Tsupko Gravitational lensing and shadows	PT4 A - Victor Flambaum + Yevgeny Stadnik Variation of the fundamental constants, violation of the fundamental symmetries and dark matter	PT4 B - Victor Flambaum + Yevgeny Stadnik Variation of the fundamental constants, violation of the fundamental symmetries and dark matter	PT2 B - Perlick Volker + Oleg Tsupko Gravitational lensing and shadows
PT – Precision Tests BN - Binaries WD - White Dwarfs	PT3 A - Angela di Virgilio + Claus Laemmerzahl Experimental Gravitation	PT3B - Angela di Virgilio + Claus Laemmerzahl Experimental Gravitation	BN6 - Luc Blanchet Post-Newtonian expansion and analytic approximations	WD2 - Manuel Malheiro Origin and physics of Soft Gamma-ray Repeater and Anomalous X-ray Pulsars
GB – Gamma Ray Burst HE – High Energy CS – Cosmic strings PT – Precision Tests	GB9 - Grant J. Mathews GRBs and the Afterglow	PT5 – Roberto Peron + Francesco Vespe Testing gravitation theories in space	CS1 - Reinoud Jan Slagter Cosmic Strings	HE6 - Federico Fraschetti + Matthew G. Baring cosmic ray acceleration and radiative dissipation in relativistic jets and IceCube
HE – High Energy GW – Gravitational Waves		GW8 - Roberto Capuzzodolcetta + Manuel Arca Sedda Dense stellar environments as sites of gravitational wave emission	HE1 – Razmik Mirzoyan + Alessandro De Angelis Very High Energy Gamma Rays	HE5 - Paolo Padovani + Paolo Giommi Neutrino Astronomy
HE – High Energy BN - Binaries	HE7 - Lorenzo Amati + Enrico Bozzo Future missions for high-energy astrophysics	HE3 - Filippo Frontera + Shu Zhang the first Chinese X-ray astronomy mission Insight-HXMT at MGXV	HE2 - Antonio Capone High Energy Astrophysical Neutrino detection	BN9 - Donato Bini + Jan Steinhoff Gravitational interaction of n-pole point particles and higher-spin fields
HE – High Energy HR - History ED – Education DM – Dark matter	HR2 – Paolo De Bernardis + Gabriele Gionti + Costantino Sigismondi Angelo Secchi and Astrophysics	HE8 - Ulisses Barres de Almeida + Andy Pollock Astronomical Data in the Multi-messenger era	ED1 - David Blair + Matteo Ruggiero Teaching Einsteinian Physics to School Students	DM2- Rita Bernabei and Zurab Berezhiani Dark Matter and rare processes
BN - Binaries		HR1 – Christian Bracco + Tilman Sauer History of Relativity and Cosmology		BN4 - Yukikatsu Terada + Keiichi Maeda End of white dwarfs and type Ia supernova
SF – Strong Field BS – Boson Stars		SF1 - Sang Pyo Kim + She-Sheng Xue Strong (EM) Fields Physics and Laboratory Astrophysics	BS2 A - Alfredo Macias + Darío Núñez Scalar fields in cosmology	BS2 B - Alfredo Macias + Darío Núñez Scalar fields in cosmology

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