

The 6th Bego Rencontre Summer School – July 4 - 14, 2022 (ICRANet Seat at Villa Ratti in Nice, in Pescara and online)

	Monday July 4 (ICRA Sapienza and ONLINE)	Tuesday July 5 (NICE and ONLINE)	Wednesday July 6 (NICE and ONLINE)	Thursday July 7 (PESCARA and ONLINE)	Friday July 8 (PESCARA and ONLINE)	Saturday July 9	Sunday July 10	Monday July 11 (PESCARA and ONLINE)	Tuesday July 12 (PESCARA and ONLINE)	Wednesday July 13 (PESCARA and ONLINE)	Thursday July 14 (PESCARA and ONLINE)	
Topics	Dark Matter Galactic Center	Dark Matter Galactic Center	Dark Matter Galactic Center	AGNs	Fronteer			Cocoon and BdHN Model	Cocoon and BdHN Model	Supernova	GRB 171205A and GRB 220101	
Chair	<i>Carlo Luciano BIANCO</i>	<i>Aldo TREVES</i>	<i>Piero ROSATI</i>	<i>Gregory VERESHCHAGIN</i>	<i>Shesheng XUE</i>			<i>Yerlan AIMURATOV</i>	<i>Liang LI</i>	<i>Maria Giovanna DAINOTTI</i>	<i>Carlos ARGUELLES</i>	
09:00- 09:45	Carlo Luciano BIANCO <i>Report on the July 1, 2022 ANVUR evaluation of ICRA and ICRANet</i>	Federico RE <i>Detectability of primordial black holes as a dark matter candidate with gravitational waves from the Galactic center</i>	Daniele GREGORIS <i>Understanding Gravitational Entropy of Black Holes: A New Proposal via Curvature Invariants</i>	Kuantay BOSHKAYEV	Di LI			Maria Giovanna DAINOTTI <i>3D fundamental plane relation from the high- energy (Fermi-LAT) to the optical wavelengths</i>	Ehud NAKAR <i>Jet propagation, shock breakout and Cocoon emission</i>	Massimo DELLA VALLE	Jorge RUEDA <i>Binary-Driven Hypernovae: building blocks and future developments</i>	
09:45- 10:30	Paola Re FIORENTIN and Alessandro SPAGNA <i>Local Cosmology in the Gaia era</i>	Stefano BONDANI <i>Detectability of primordial black holes as a dark matter candidate with gravitational waves from the Galactic center</i>	Carlos Raul ARGUELLES <i>RAR model: cosmological scales, galactic scales, and DM particle nature</i>	Shesheng XUE <i>W\$ boson mass tension caused by its right-handed gauge coupling at high energies?</i>	Lang XIE , Yun WANG and Zhi-Ping JIN			Lorenzo AMATI <i>Cosmology with Gamma- Ray Bursts</i>	Tsvi PIRAN	Rahim MORADI <i>Nature of the ultrarelativistic prompt emission phase of GRB 190114C and 180720B</i>	Liang LI <i>BdHN at large distances (2) spectral analysis</i>	
10:30- 11:15	Florian PEISSKER	Felix MIRABEL	Carlos Raul ARGUELLES	Narek SAHAKYAN	Wentao LUO			Ehud NAKAR <i>Jet propagation, shock breakout and Cocoon emission</i>	Mariateresa CROSTA <i>Multiscale gravitational astronomy in the Gaia era: general relativistic observables, models and tests for the Galaxy and its constituents. The Milky Way as Einstein's paradigm.</i>	Luca IZZO <i>The search for jet cocoon in broad line supernovae</i>	Wang YU <i>GRB 190829A - A Showcase of Binary Late Evolution</i>	
11:15- 11:30	Coffee break						Coffee break					
11:30- 12:15	Matteo VIEL <i>The Intergalactic Medium as a cosmological probe</i>	Carlos ARGUELLES <i>2022 ICTP-SAIFR Prize in Classical Gravity and Applications – Fermionic DM: galactic scales, cosmological scales and the nature of the dark matter particles</i>	Piero ROSATI <i>Cosmography and tests of the LCDM paradigm with high- precision strong lensing modelling of galaxy clusters</i>	Razmik MIRZOYAN	Mimoza HAFIZI			Gregory VERESHCHAGIN <i>Photospheric emission from relativistic cocoons</i>	Petr KOTLAŘÍK <i>Slowly rotating thin discs around a central black hole as possible relativistic model of galaxy</i>	Eli WAXMAN <i>ULTRASAT mission</i>	General discussion	
12:15 – 13:00			Martin MESTRE <i>Constraining the core-halo structure of fermionic DM in the Galaxy with stellar streams</i>	Costantino SIGISMONDI (video message)	Francesco LONGO <i>Observations of GRB at HE and VHE energies: a long path to success</i>			Dafne GUETTA	Davide ASTESIANO <i>Relativistic models for galaxies</i>	Yerlan AIMURATOV <i>Gamma-Ray Bursts Associated with Supernovae. Case studies: 190114C, 190829A, 130427A.</i>	General discussion	
13:00 – 15:00	Lunch break						Lunch break					
15:00- 15:45			Massimo MENEGHETTI <i>Strong lensing constraints on the small scale structure of galaxy clusters</i>	Jose RODRIGUEZ <i>Ellipsoids evolution via GWs</i>	Johann RAFELSKI			Tsvi PIRAN	Eleonora TROJA			
15:45- 16:30			Valentina CRESPI <i>S2 star dynamics in high Dark Matter densities around SgrA*</i>					Nick MAVROMATOS <i>Cosmologies with Gravitational Anomalies and Axions: modified profiles of Gravitational Waves and warm dark matter properties</i>		Laura BECERRA <i>SPH simulations of the Induced Gravitational Collapse</i>	Christopher FRYER	
16:30 – 17:00	Coffee break						Coffee break					
17:00 – 17:45		Rafael YUNIS <i>Small-scale structure, self-interacting fermions, and cosmology</i>						Vahe PETROSIAN	Bing ZHANG <i>The physics of fast radio bursts</i>	General discussion	Remo RUFFINI Jorge RUEDA	