17th Jul 2023

	1	2	3
07:00 - 07:10	**00 Welcome to Amaldi15, and GWIC Announcements**		
07:10 - 10:10	**01 Focus session: Ground-based Interferometers** Vaishali Badrish Adya **07:10 - 08:00** **Broad review of ground-based interferometers** Edwige Tournefier **08:00 - 08:50** **Ground based interferometers: the next decade** Bram Slagmolen **09:00 - 09:20** **Towards high throughput testing of low mechanical loss coating materials for gravitational wave detectors** Kirsty Gardner, Fengmiao Li, Daniel Bruns, Daniel Wong, Matthew Mitchell, Jess McIver, Zou Ke, Rottler Joerg, Jeff F Young **09:20 - 09:40** **Improved sensitivity in next generation ground based gravitational wave detectors using substrate transferred AlGaAs mirror coatings** Gregory M Harry, Steve D Penn, Andri M Gretarsson, Garrett Cole **09:40 - 10:00** **Dual balanced readout for scattered light noise suppression in interferometric detectors** André Lohde, Daniel Voigt, Leonie Eggers, Oliver Gerberding		
10:10 - 14:00			
14:00 - 17:00	**02 Invited talks: Pulsar Timing Array Discoveries and GW Astrophysics** Christopher Berry **14:00 - 14:50** **Searching for a Gravitational Wave Background with Pulsar Timing Arrays** Sarah Vigeland **15:00 - 15:50** **Building a Pulsar Timing Array, and the IPTA** Golam Shaifullah **16:00 - 16:50** **Gravitational Wave Paleontology: a New Frontier to Probe the Lives of Massive Stars across Cosmic History** Floor Broekgaarden		
17:00 - 22:00			
22:00 - 23:59	**03a Focus session: Pulsar Timing Arrays** Ryan Shannon **22:00 - 22:50** **Calibrating a galactic-scale gravitational wave detector: PTA noise modeling and characterization** Jeffrey S Hazboun **23:00 - 23:20** **Optimizing the pulsar noise models for the search of very-low frequency gravitational waves with the second data release of the European Pulsar Timing Array** Aurélien Chalumeau, Aditya Parthasarathy, Michael J. Keith **23:20 - 23:40** **Noise analysis in the Indian Pulsar Timing Array Data Release I** Aman Srivastava, Shantanu Desai, Neel Kolhe, Mayuresh Surnis, Bhal Chandra Joshi, Abhimanyu Susobhanan, Aurélien Chalumeau, Shinnosuke Hisano, Nobleson K., Swetha Arumugam, Divyansh Kharbanda, Jaikhomba Singha, Pratik Tarafdar, P Arumugam, Manjari Bagchi, Adarsh Bathula, Subhajit Dandapat, Lankeswar Dey, Churchil Dwivedi, Raghav Girgaonkar, A. Gopakumar, Yashwant Gupta,		

Tomonosuke Kikunaga, M. A. Krishnakumar, Kuo Liu, Yogesh Maan, P K Manoharan, Avinash Kumar Paladi, Prerna Rana, Golam M. Shaifullah, Keitaro Takahashi

23:40 - 23:59
The second data release of the European Pulsar Timing Array - the dataset
Jiwoong Jang

18th Jul 2023

	1	2	3
00:00 - 01:00	**03b Focus session: Pulsar Timing Arrays** Jun'ichi Yokoyama **00:10 - 00:30** **The nanohertz gravitational-wave background null hypothesis: Characterizing noise in millisecond pulsar observations with the Parkes Pulsar Timing Array** Andrew Zic **00:30 - 00:50** **Comparison of recent pulsar timing array results** Paul T. Baker, Aurélien Chalumeau, Subhajit Dandapat, Kyle Gersbach, Deborah Good, Jeffrey Hazboun, Bjorn Larsen, Patrick Meyers, Chiara M. F. Mingarelli, Aditya Parthasarathy, Nihan Pol, Prerna Rana, Levi Schult, Lorenzo Speri, Aman Srivastava, Stephen R. Taylor, Kalista Wayt		
01:00 - 07:00			
07:00 - 10:00	**04 Focus session: Observing Gravitational Waves from Space** Stefano Vitale **07:00 - 07:50** **How does the LISA instrument work? Achievements, challenges, and the way forward.** Rita Dolesi **08:00 - 08:50** **Bridging the gap: gravitational wave surveys in the unprobed milli-Hertz regime** Valeriya Korol **09:00 - 09:20** **Massive black hole binaries in LISA: multimessenger prospects and electromagnetic counterparts** Alberto Mangiagli **09:20 - 09:40** **A testbed for Tilt-To-Length coupling and Differential-Wavefront-Sensing performance in LISA** Alvise Pizzella, Rodrigo García Álvarez, Miguel Dovale Álvarez, Gerhard Heinzel **09:40 - 10:00** **Reaching LISA low-frequency performances** Daniele Vetrugno		
10:00 - 14:00			
14:00 - 16:00	**05a-1 Ground-based Detector Characterization** Jess McIver **14:20 - 14:40** **Magnetic Noise Injection Scripts and Preliminary Results for The Virgo Detector** Catalina-Ana Miritescu, Irene Fiori, Maria Concetta Tringali, Federico Paoletti **14:40 - 15:00** **GSpyNetTree: A signal-vs-glitch classifier for gravitational-wave event candidates** Sofia Alvarez-Lopez, Annudesh Liyanage, Julian Ding, Raymond Ng, Jess McIver **15:10 - 15:30** **Separating instrumental glitches from generic signals in gravitational-wave data** Meg Millhouse **15:30 - 15:50**	**05a-2 Pulsar Timing Array Analysis** Daniel Reardon **14:00 - 14:20** **Interstellar dispersion: comparing recovering techniques within Pulsar Timing Arrays** Francesco Iraci **14:20 - 14:40** **Status of the upcoming data release from the International Pulsar Timing Array** Kuo Liu **14:40 - 15:00** **Targeted gravitational-wave searches for supermassive black-hole binaries** Caitlin A Witt, Maria Charisi, Stephen R. Taylor, Jessie Runnoe **15:10 - 15:30** **The NANOGrav 15-year Data Set: Observations and Timing of 68**	**05a-3 Tests of General Relativity** Gregorio Carullo **14:00 - 14:20** **Overtones and black hole spectroscopy: the early ringdown regime in gravitational wave emission and in horizon dynamics** Pierre Mourier, Xisco Jiménez Forteza, Daniel Pook-Kolb, Dhruv Sharma, Yi Qiu, Badri Krishnan, Erik Schnetter **14:20 - 14:40** **The LIGO-Virgo-KAGRA testing general relativity group mock data challenge** Nathan K Johnson-McDaniel **14:50 - 15:10** **Probing the speed of gravity with LISA, LIGO/Virgo/KAGRA, and joint observations.** Johannes Noller, Ian Harry **15:10 - 15:30**

	Characterizing the Responsiveness of the GstLAL Search Pipeline to Gravity Spy Glitches Andre Guimaraes, Zach Yarbrough, Gabriela González	**Millisecond Pulsars** Joseph K Swiggum **15:30 - 15:50** **Model checking for pulsar timing arrays** Patrick M. Meyers, Michele Vallisneri, Katerina Chatziioannou, Alvin J.K. Chua	**Characteristic Features of Gravitational Wave Lensing as Probe of Lens Mass Model** Paolo Cremonese, David F. Mota, Vincenzo Salzano
16:00 - 17:00	**05b-1 Growing Community** Ansel Neunzert **16:00 - 16:20** **Gravity Spy 1.0: Enabling discoveries in gravitational-wave data through community science** Christopher P L Berry **16:20 - 16:40** **Gravity Spy 2.0: Empowering the public to investigate the causes of glitches in LIGO data** Jennifer Sanchez **16:40 - 17:00** **GWECS: new organization for early career scientists in gravitational-wave research** Mikhail Korobko, Nicola Tamanini, Golam Shaifullah, Jessica Steinlechner, Monica Seglar, Stefano Rinaldi, Elisa Maggio, Martina Muratore, Michael Katz	**05b-2 Nuclear and Particle Physics with Gravitational Waves** Jocelyn Read **16:00 - 16:20** **Constraining nuclear parameters and neutron star equations of state using GW observation through f-modes from glitching pulsars.** Bikram Keshari Pradhan, Dhruv Pathak, Debarati Chatterjee **16:20 - 16:40** **Constraining Neutron-Star Matter with Microscopic and Macroscopic Collisions** Peter T. H. Pang, Sabrina Huth, Ingo Tews, Tim Dietrich, Arnaud Le Fèvre, Achim Schwenk, Wolfgang Trautmann, Kshitij Agarwal, Mattia Bulla, Michael W. Coughlin, Chris Van Den Broeck **16:40 - 17:00** **Gravitational-wave event rates as a new probe for dark matter microphysics** Alexander C. Jenkins, Markus R. Mosbech, Sownak Bose, Celine Boehm, Mairi Sakellariadou, Yvonne Y. Y. Wong	**05b-3 Stellar Astrophysics** Peter Shawhan **16:00 - 16:20** **Gravitational waves from dense star clusters: the role of stellar binarity and density on the formation of intermediate-mass black holes, compact binary mergers, and other exotica** Manuel Arca Sedda **16:20 - 16:40** **Which came first: Supernova kick or black hole spin?** Vishal Baibhav, Vicky Kalogera **16:40 - 17:00** **The broadening of universal relations for proto-neutron stars and post-merger remnants** Victor Santos Guedes
17:00 - 22:00			
22:00 - 23:59	**06a-1 Stochastic GW Background** Luke Kelley **22:00 - 22:20** **Search for anisotropic nanohertz gravitational wave background in the NANOGrav 15 yr dataset** Nihan Pol **22:20 - 22:40** **Astro vs Cosmo: Interpreting a Nanohertz Gravitational Wave Background Detection with Pulsar Timing Arrays** William G. Lamb **22:40 - 23:00** **Simultaneous Inference of Multiple Stochastic Gravitational Wave Backgrounds and Foregrounds in LISA** Alexander W Criswell, Sharan Banagiri, Jessica Lawrence, Steven Rieck, Malachy Bloom, Joseph Romano, Vuk Mandic **23:10 - 23:30** **Search for the stochastic gravitational-wave background with the Parkes Pulsar Timing Array** Daniel J Reardon **23:30 - 23:50** **The MeerKAT Pulsar Timing Array: first results**	**06a-2 Modeling Gravitational Waves** Sarah Vigeland **22:00 - 22:20** **Spectral method for computing gravitational quasinormal-mode frequencies of black hole** Ka Wai Chung, Pratik Wagle, Nicolas Yunes **22:20 - 22:40** **Efficient fully precessing gravitational waveforms for binaries with neutron stars** Michael LaHaye, Huan Yang, Béatrice Bonga, Zhenwei Lyu **22:40 - 23:00** **Gyroscopes orbiting gargantuan black holes: Incorporating secondary spin into extreme mass-ratio inspiral waveforms** Lisa V Drummond, Scott A Hughes, Alexandra G Hanselman, Devin R Becker, Philip Lynch **23:10 - 23:30** **Waveform uncertainty quantification and interpretation for gravitational-wave astronomy** Jocelyn S Read **23:30 - 23:50**	**06a-3 Tests of GR and Multimessenger Astrophysics** Scott Ransom **22:00 - 22:20** **Gravitational Wave Probes of Parity Violation** Leah Jenks **22:20 - 22:40** **Effect of Ignoring Eccentricity in Testing General Relativity with Gravitational Waves** Purnima Narayan, Nathan K Johnson-McDaniel, Anuradha Gupta **22:40 - 23:00** **Eccentricity vs Microlensing: Effect of ignoring eccentricity in microlensing searches** Anuj Mishra, Apratim Ganguly **23:10 - 23:30** **Searching for gravitational wave echo signals from the O3 events** Nami Uchikata, Tatsuya Narikawa, Hiroyuki Nakano, Norichika Sago, Hideyuki Tagoshi, Takahiro Tanaka

	Matthew Miles, Ryan Shannon	**Love numbers and hidden symmetries of gravity** Adam R Solomon	

19th Jul 2023

	1	2	3
00:00 - 01:00	**06b-1 Stochastic GW background** Carole Perigois **00:00 - 00:20** **Effect of Observational Inputs on the Astrophysics Gleaned from the Gravitational Wave Background** Julie Comerford **00:20 - 00:40** **Results from the search for gravitational waves with the EPTA DR2 + InPTA DR1** Siyuan Chen	**06b-2 Modeling Gravitational Waves** Sarah Vigeland **00:00 - 00:20** **Characterizing Burst with Linear Memory Events with LIGO-Virgo-KAGRA and Pulsar Timing Array Observatories** Subhajit Dandapat	**06b-3 Tests of GR and Multimessenger Astrophysics** Scott Ransom **00:00 - 00:20** **Testing general relativity with gravitational waves using meta Inspiral-Merger-Ringdown Consistency Test** Sakshi Satish Madekar, Anuradha Gupta, Nathan K Johnson-McDaniel **00:20 - 00:40** **Strongly Lensed Supermassive Black Hole Binaries as Nanohertz Gravitational-Wave Sources** Nicole M. Khusid, Chiara M. F. Mingarelli, Priyamvada Natarajan, J. A. Casey-Clyde, Anna Barnacka
01:00 - 07:00			
07:00 - 08:40	**07a-1 Observing Gravitational Waves from Space - Instrument Science** Sarah Paczkowski **07:00 - 07:20** **A magnetoresistive based high precision magnetic diagnostics subsystem for LISA** Ana Pérez Ortega, Biel Bonastre, David Roma, Victor Martín, Josep Salvans, Juan Ramos, Miquel Nofrarias **07:20 - 07:40** **Torsion pendulum testing of the continuous discharge strategy for LISA** Davide Dal Bosco, Rita Dolesi, Antonella Cavalleri, William J Weber, Massimo Bassan, Giuseppe Masciantonio, Fulvio De Persio, Giuliana Russano, Stefano Vitale, Francisco Rivas Garcia, Vittorio Chiavegato **07:50 - 08:10** **Monitoring the Transit of Interplanetary Structures Impacting on the LISA Performance** Federico Sabbatini, Mattia Villani, Catia Grimani, Michele Fabi **08:10 - 08:30** **Stationary and transient charge "signals" from the space environment to LISA observatory** Valerio Ferroni, Francesco Dimiccoli, Catia Grimani, Mattia Villani, Michele Fabi, William Joseph Weber, Rita Dolesi	**07-2 Modeling Gravitational Waves** Archana Pai **07:00 - 07:20** **Unveiling eccentricity in binary black hole mergers** Alice Bonino, Patricia Schmidt, Geraint Pratten **07:20 - 07:40** **Accounting for Systematic Uncertainty: Advancements in Waveform Modeling** Sebastian Khan **07:40 - 08:00** **The appearance of LIGO/Virgo/KAGRA sources in AGN accretion disks** Xian Chen, Xiaoyue Zhang **08:10 - 08:30** **A complete inspiral-merger-ringdown higher-mode model for precessing binaries** Eleanor Hamilton, Jonathan Thompson, Lionel London, Shrobana Ghosh, Panagiota Kolitsidou, Charlie Hoy, Mark Hannam **08:30 - 08:50** **First phenomenological model of multipole asymmetry in gravitational wave emission from compact binary coalescences** Shrobana Ghosh, Panagiota Kolitsidou, Mark Hannam **08:50 - 09:10** **Probing globular clusters and other astrophysical environments with gravitational waves emitted by accelerated compact binary mergers** Avinash Tiwari, Aditya Vijaykumar, Shasvath J. Kapadia, Giacomo Fragione, Sourav Chatterjee, K. G. Arun, Parameswaran Ajith	**07-3 Multimessenger Astrophysics** Masaki Ando **07:00 - 07:20** **Hunting for binary black holes as multi-messenger sources** Raphaël Mignon-Risse, Peggy Varniere, Fabien Casse **07:20 - 07:40** **among us: How to find a BBH among regular SBH** Peggy Varniere, Raphael Mignon-Risse, Fabien Casse **07:40 - 08:00** **Forecasting detection and parameter estimation capabilities for different ET designs in a multi-messenger context** Ulyana Dupletsa **08:10 - 08:30** **The targeted search for continuous gravitational waves from known pulsars** Luca D'Onofrio **08:30 - 08:50** **Localizing merging black holes using gravitational-wave lensing** Otto A Hannuksela **09:20 - 09:40** **Sifting for electromagnetic counterparts to LIGO-Virgo-KAGRA Gravitational Wave triggers using AstroSat-CZTI** Gaurav Waratkar, Varun Bhalerao, Dipankar Bhattacharya, Santosh Vadawale **09:40 - 10:00** **BOBcat: A catalog of supermassive black hole binary candidates** Jessica Sydnor, Sarah Burke-Spolaor
08:40 - 09:00			
09:00 - 10:00	**07b-1 Constraints on Modified Gravity** Sarah Paczkowski **Dipolar tidal effects in gravitational**		

	waves from scalarized black hole binary inspirals in quadratic gravity Iris van Gemeren, Banafsheh Shiralilou, Tanja Hinderer **Constraining modifications of black hole perturbation potentials near the light ring with quasinormal modes** Sebastian H. Völkel, Nicola Franchini, Enrico Barausse, Emanuele Berti **Constraints on the amplitude of gravitational wave echoes from black hole ring-down using minimal assumptions** Andrea Miani, Claudia Lazzaro, Alessandro Martini, Giovanni Prodi, Shubhanshu Tiwari, Marco Drago, Edoardo Milotti, Gabriele Vedovato		
10:00 - 14:00			
14:00 - 17:00	**08 Invited talks: cosmology, society, machine learning** Francesco Fidecaro **14:00 - 14:50** **Probing the Universe's expansion with multi-messenger astronomy** Antonella Palmese **15:00 - 15:50** **Collaboration on global and local scales: The power of the "two-eyed seeing" approach in gravitational wave science** Kathryne J Daniel **16:00 - 16:50** **How can Artificial Intelligence/Machine Learning revolutionize gravitational wave astrophysics?** Kaze Wong		
17:00 - 22:00			
22:00 - 23:59	**09a Focus session: Particle physics and atom interferometry** Tamara Davis **22:00 - 22:50** **Strong gravity probes of the dark side** William East **23:00 - 23:20** **Do Gravitational Waves *see* the Dark Matter?** Shreya Banerjee, Sayantani Bera, David F. Mota **23:20 - 23:40** **Searching for ultralight boson clouds using gravitational waves** Dana H Jones, Ling Sun, Nils Siemonsen, William E East, Susan M Scott, Karl Wette **23:40 - 23:59** **Ultralight dark matter searches with laser interferometry** Yuta Michimura		

20th Jul 2023

	1	2	3
00:00 - 01:00	**09b Focus session: Particle physics and atom interferometry** Tamara Davis **00:00 - 00:50** **Atom Interferometry for Studies of Gravitational Waves** John Ellis		
01:00 - 07:00			
07:00 - 10:00	**10-1 Concepts for future detectors** Jessica Steinlechner **07:00 - 07:20** **Astigmatic mode mismatch sensing for the next gravitational wave detectors** Antonio Perreca, Andrea Grimaldi **07:20 - 07:40** **Development and characterisation of a picometer-sensitivity sensor for suspension platform interferometry** Ya Zhang, Sheon S. Y. Chua, Bram J. J. Slagmolen **07:40 - 08:00** **Stray light noise simulations for the Einstein Telescope and Virgo and the use of instrumented baffles** Mario Martinez, Marc Andres-Carcasona, Adrian Macquet, Lluisa Mir **08:10 - 08:30** **Status of Compact Optical Heads for Test Mass Readout with Deep Frequency Modulation** Meenakshi Mahesh, Wanda Vossius, Oliver Gerberding, Leander Goebbels, Tobias Eckhardt **08:30 - 08:50** **Measuring thermal noise in gram-scale Si flexures at 123 K** Disha Kapasi, Terry McRae, Johannes Eichholz, Paul Altin, Bram Slagmolen, David McClelland **08:50 - 09:10** **Commissioning of the TorPeDO Suspension Chain** Jennifer L. Wright, Avanish Kulur Ramamohan, Nathan A. Holland, Perry W. F. Forsyth, Ya Zhang, Sheon S. Y. Chua, Bram J. J. Slagmolen **09:20 - 09:40** **Characterization of heterodyne phase locking for a Newtonian noise sensor** Avanish Kulur Ramamohan, Sheon S. Y. Chua, Ya Zhang, Min Jet Yap, Jennifer Wright, Nathan A. Holland, Perry W. F. Forsyth, Bram J. J. Slagmolen **09:40 - 10:00** **Distributed seismic fiber networks and their potential for current and next-**	**10-2 Stochastic GW background and cosmology** Giancarlo Cella **07:20 - 07:40** **Astrophysical implication of EPTA DR2 analysis** Alberto Sesana **07:40 - 08:00** **Standard Siren Cosmology with Dark Binary Neutron Stars** Tathagata Ghosh, Bhaskar Biswas, Sukanta Bose **08:10 - 08:30** **Cosmological Implications of Gravitational Memory** Tore Boybeyi, Vuk Mandic, Alexandros Papageorgiou **08:30 - 08:50** **Gravitational Wave Astrophysics with TianQin** Yi-Ming Hu **08:50 - 09:10** **Moving gravitational wave sources at cosmological distances: Impact on the measurement of the Hubble constant** Alejandro Torres-Orjuela, Xian Chen **09:20 - 09:40** **Searching for cosmic strings with gravitational waves at low frequencies** Hippolyte Quelquejay Leclere, Stanislav Babak, Danièle Steer, Pierre Auclair **10:00 - 10:20** **Detecting Primordial Stochastic Gravitational Waves with Reduced Astrophysical Foregrounds** Zhen Pan	**10-3 stellar astrophysics** Joe Glaser **07:00 - 07:20** **Deep Einstein@Home all-sky search for continuous gravitational waves in LIGO O3a public data** Benjamin Steltner, M. Alessandra Papa **07:20 - 07:40** **Black-hole mergers in disk-like environments could explain the observed q-$\chi_{\rm eff}$ correlation** Alessandro Santini, Davide Gerosa, Roberto Cotesta, Emanuele Berti **07:40 - 08:00** **Gravitational wave spectral synthesis** Wouter G. J. van Zeist **08:10 - 08:30** **New lights on Binary Black Holes population from GWTC-3 of LIGO-Virgo-KAGRA** Suvodip Mukherjee, Christos Karathanasis, Simone Mastrogiovanni **08:30 - 08:50** **Merging binary black holes formed through chemically homogeneous evolution** Simon Paul Stevenson **08:50 - 09:10** **Probing the solar interior with lensed gravitational waves from known pulsars** Ryuichi Takahashi, Soichiro Morisaki, Teruaki Suyama **09:20 - 09:40** **First constraints on binary black hole environments with LIGO-Virgo observations** Giada Caneva Santoro, Soumen Roy, Rodrigo Vicente, Maria Haney, Ornella Piccinni, Walter del Pozzo, Mario Martinez **09:40 - 10:00** **Searching for vector (boson)-star mergers in gravitational-wave data** Juan Calderon Bustillo, Nicolas Sanchis Gual, Carlos Herdeiro, Jose Antonio Font, Samson Leong, Alejandro Torres Forne, Tjonnie Li

	generation gravitational wave detectors Katharina-Sophie Isleif, Reinhardt Rading		
10:00 - 10:30			
10:30 - 14:00			
14:00 - 17:00	**11-1 Techniques: parameter estimation** Francesco Pannarale **14:00 - 14:20** **Probability distribution of astrophysical gravitational-wave background fluctuations** Barry Ginat, Robert Reischke, Ivan Rapoport, Vincent Desjacques **14:20 - 14:40** **Detecting Primordial Stochastic Gravitational Wave Backgrounds in the LISA Global Fit** Robert Rosati, Tyson B Littenberg **14:40 - 15:00** **Probing the horizon: Postmerger chirp morphology and parameterization** Chad Henshaw, Laura Cadonati **15:10 - 15:30** **Black hole spectroscopy by mode cleaning** Sizheng Ma, Ling Sun, Yanbei Chen **15:30 - 15:50** **Inferring properties of dark galactic halos using strongly lensed gravitational waves** Eungwang Seo, Tjonnie G.F. Li, Martin A. Hendry **16:00 - 16:20** **Estimating binary source properties in very low latency via post-Newtonian parameter space** Verónica Villa-Ortega, Thomas Dent, Frank Ohme **16:20 - 16:40** **Angular Resolution of the Search for Anisotropic Stochastic Gravitational Wave Backgrounds with LISA** Malachy Bloom, Alexander Criswell, Sharan Banagiri, Jessica Lawrence, Steven Rieck, Joseph Romano, Vuk Mandic	**11-2 nuclear and particle physics with gravitational waves** Tjonnie Lee **14:00 - 14:20** **Constraining neutron star properties with a new equation of state insensitive approach** Bhaskar Biswas, Sayak Datta **14:20 - 14:40** **Probing the viscous interior of neutron stars with gravitational waves from inspiraling neutron stars I** Justin L Ripley, Abhishek Hegade K R, Nicolas Yunes **14:40 - 15:00** **Probing the viscous interior of neutron stars with gravitational waves from inspiraling neutron stars II** Abhishek Hegade K R **15:10 - 15:30** **Universal relations to measure neutron star properties from targeted r-mode searches** Suprovo Ghosh **15:30 - 15:50** **Search for subsolar-mass black hole binaries in the LIGO-Virgo O3b run** Gonzalo Morras **15:50 - 16:10** **Analysis of a subsolar-mass compact binary candidate from the second observing run of Advanced LIGO** Jose Francisco Nuño Siles, Gonzalo Morrás, Juan García-Bellido, Ester Ruiz Morales, Mairi Sakellariadou, Sebastien Clesse, Mario Martínez, Katarina Martinovic, Alexis Menéndez-Vázquez **16:20 - 16:40** **Searching for New Physics with the NANOGrav 15-year Data Set** Andrea Mitridate, Kai Schmitz, Ken Olum, Richard von Eckardstein, Tobias Schröder, David Wright, Tanner Trickle, Jonathan Nay, Kimberly Boddy, Rafael R. Lino dos Santos, Sonali Verma, Adeela Afzal, Caner Unal, Jose Juan Blanco-Pillado, Vincent Lee	**11-3 Compact objects** David Keitel **14:00 - 14:20** **The NANOGrav 15-year dataset: Search for individual supermassive black hole binaries** Bence Becsy **14:20 - 14:40** **Searching for Continuous Gravitational Waves from Scorpius X-1** John T Whelan **14:40 - 15:00** **Hierarchical search for persistent gravitational-wave candidates in O3 LIGO data** Alan M Knee, Helen Du, Evan Goetz, Jess McIver **15:10 - 15:30** **Probing More Deeply in an All-Sky Search for Continuous Gravitational Waves in the LIGO O3 Data Set** Aashish Tripathee, Keith Riles **15:30 - 15:50** **Placing gravitational-wave observations of binary black holes in astrophysical context** Christopher P L Berry, Monica Gallegos-Garcia, Camille Liotine, Michael Zevin, Zoheyr Doctor, Maya Fishbach, Vicky Kalogera **15:50 - 16:10** **Forecasting the detection capabilities of third–generation gravitational–wave detectors using GWFAST** Francesco Iacovelli **16:20 - 16:40** **Constraining Detection Rates for Binary Black Hole Hyperbolic Encounters with BayesWave** Tell Peter Lott, Heleen Amedi, Jay Graves, Laura Cadonati **16:40 - 17:00** **Search for hyperbolic encounters of compact objects in the third LIGO-Virgo-KAGRA observing run** Sophie Bini, Shubhanshu Tiwari, Michael Ebersold, Yumeng Xu, Giovanni Andrea Prodi
17:00 - 22:00			
22:00 -	**12a-1 Techniques: modeled**		**12-3 Constraints on modified**

23:59

searches

Leo Tsukada

22:00 - 22:20
A hierarchical approach to multi-messenger gravitational wave searches
Hannah Griggs, Viviana Cáceres, Shamita Hanumasagar, Paul Alexander Baynard, Laura Cadonati

22:20 - 22:40
Accessing the astrophysical significance of gravitational-wave triggers: A Unified p-astro approach.
Sharan Banagiri, Christopher P. L. Berry, Gareth S. Cabourn Davies, Leo Tsukada, Zoheyr Doctor

22:40 - 23:00
Quick Approximations to LISA's White-Dwarf Galactic Background
Grant D Meadors

23:10 - 23:30
Continuous Gravitational Waves from Young Neutron Stars
Ben Grace

23:30 - 23:50
Falcon continuous gravitational wave atlas and large scale data analysis using MVL.
Vladimir Dergachev

gravity

22:20 - 22:40
Signatures of black hole area quantisation in the observed gravitational-wave signals
Krishnendu N V

22:40 - 23:00
Gravitational wave in a scenario of non conservative gravity
Carlos Frajuca, Matheus Jatkoske Lazo, Matheus Silva Colmenero de Oliveira

23:10 - 23:30
Compact binary systems in modified gravity theories and their effective-one-body description
Félix-Louis Julié, Vishal Baibhav, Emanuele Berti, Alessandra Buonanno

23:50 - 23:59
Testing GR with gravitational waves from binary black holes in eccentric orbits
Sajad Ahmad Bhat, Pankaj Saini, Chinmay Gandevikar, Marc Favata, Arun K. G., Chandra Kant Mishra

21st Jul 2023

	1	2	3
00:00 - 01:00	**12b-1 Techniques: modeled searches** Leo Tsukada **00:00 - 00:20** **Not-so-blind searches for young, isolated, nearby gravitars** Rodrigo Tenorio, Joan-Réne Mérou, Rafel Jaume, David Keitel, Alicia M. Sintes **00:20 - 00:40** **Kramers-Kronig relation in gravitational lensing** So Tanaka, Teruaki Suyama		
01:00 - 07:00			
07:00 - 10:00	**13-1 Techniques: parameter estimation** Viola Sordini **07:00 - 07:20** **What's in a binary black hole's mass parameter?** Vaibhav Tiwari **07:20 - 07:40** **Inferring the properties of LISA sources** Charlie Hoy, Laura Nuttall **07:40 - 08:00** **Eccentricity, spin precession, and gravitational-wave signals that are too short** Davide Gerosa, Isobel M. Romero-Shaw, Nicholas Loutrel **08:10 - 08:30** **Identifying LISA verification binaries amongst the Galactic population of double white dwarfs** Eliot Finch, Giorgia Bartolucci, Daniel Chucherko, Ben G Patterson, Valeriya Korol, Antoine Klein, Diganta Bandopadhyay, Hannah Middleton, Christopher J Moore, Alberto Vecchio **08:30 - 08:50** **Constraining spin precession in the black hole binary population with next-generation ground-based gravitational wave detectors** Lucy M Thomas, Patricia Schmidt, Geraint Pratten **08:50 - 09:10** **Improving the scalability of Gaussian-process error marginalization in gravitational-wave inference** Miaoxin Liu, Xiaodong Li, Alvin J. K. Chua	**13-2 Techniques: modeled searches and population synthesis** Peter Shawhan **07:00 - 07:20** **Convolutional neural network search for long-duration transient gravitational waves from glitching pulsars** Luana M Modafferi, Rodrigo Tenorio, David Keitel **07:20 - 07:40** **GPU-accelerated Searches for Long-Duration Gravitational Wave Transients from New-Born Neutron Stars** Joan-René Mérou, Rodrigo Tenorio, David Keitel, Alicia M Sintes **07:40 - 08:00** **A search technique to observe precessing compact binary mergers in the advanced detector era** Ian Harry, Connor McIsaac, Charlie Hoy **08:10 - 08:30** **Exploring binary black hole mergers and host galaxies with Shark and COMPAS** Liana Rauf, Cullan Howlett, Tamara Davis, Claudia Lagos **08:30 - 08:50** **One to many: comparing single gravitational-wave events to astrophysical populations** Matthew Mould, Davide Gerosa, Marco Marco Dall'Amico, Michela Mapellia **09:00 - 09:20** **Constraining EMRI population astrophysics with LISA observations** Christian E. A. Chapman-Bird, Christopher P. L. Berry, Graham Woan **09:20 - 09:40** **Binary vision: Reconstructing the LIGO-Virgo source mass distribution via iterative density estimation** Jam Sadiq, Thomas Dent	**13-3 Compact Objects** Nikolaos Stergioulas **07:00 - 07:20** **Investigating correlations between eccentricity and spins of compact binary systems** Divyajyoti ., Sumit Kumar, Chandra Kant Mishra **07:20 - 07:40** **Dynamics and gravitational wave signatures of highly magnetized compact stars** Anson Ka Long Yip, Patrick Chi-Kit Cheong, Tjonnie Guang Feng Li **07:40 - 08:00** **Binary Evolution, Gravitational-wave Mergers, and Explosive Transients in Multiple-population Gas-enriched Globular Clusters** Mor Rozner, Hagai Binyamin Perets **08:10 - 08:30** **The LIGO/Virgo/KAGRA O3 run and the multi-messenger observations** Rosa Poggiani **08:30 - 08:50** **Tidal response of a black hole** Rajendra Prasad Bhatt, Sumanta Chakraborty, Sukanta Bose **08:50 - 09:10** **Constraining the nature of dark compact objects with spin-induced octupole moment measurement** Pankaj Saini, N.V. Krishnendu **09:20 - 09:40** **Understanding the effect of overlooking orbital eccentricity on tidal deformability estimation of compact binaries** Poulami Dutta Roy, Pankaj Saini, K.G. Arun **09:40 - 10:00** **Similarity metric to disentangle IMBH signals from noisy transients**

			Sayantan Ghosh, Koustav Chandra, Archana Pai
10:00 - 14:00			
14:00 - 17:00	**14 Focus session: source modeling and new discovery frontiers** Bala Iyer **14:00 - 14:50** **Gravitational wave tails-of-memory and the phase of compact binaries to 4.5PN order** Luc Blanchet **15:00 - 15:50** **New discovery frontiers of gravitational waves** Benjamin J Owen **16:00 - 16:20** **Probing fundamental physics with multiband and multimessenger observations of compact binaries with fast-radio-burst emitters** Kent Yagi, Zhen Pan, Huan Yang **16:20 - 16:40** **Broadband quantum noise reduction in AdV+ : from frequency-dependent squeezing implementation to detection losses and scattered light mitigation** Eleonora Polini		
17:00 - 22:00			
22:00 - 23:59		**15a-2 Modeling GW sources** Deborah Ferguson **22:00 - 22:20** **On the effective action of compact objects from full GR** Neev Khera, Eric Poisson **22:20 - 22:40** **Systematic bias away from GR due to missing spin precession in the gravitational waveform.** Rohit Subbarayan Chandramouli, Nicolas Yunes **22:40 - 23:00** **Binaries wandering around supermassive black holesdue to gravitoelectromagnetism** Xian Chen, Zhongfu Zhang **23:10 - 23:30** **More realistic inference of EMRI Environments** Shubham Kejriwal, Alvin J. K. Chua **23:30 - 23:50** **How Many Quasars Host Supermassive Black Hole Binary Systems?** J. Andrew Casey-Clyde, Chiara M. F. Mingarelli, Jenny E. Greene, Andy D Goulding, Siyuan Chen, Jonathan R. Trump	**15a-3 Tests of General Relativity** Yuta Michimura **22:00 - 22:20** **Scalar polarization window in gravitational-wave signals** Hiroki Takeda, Yusuke Manita, Hidetoshi Omiya, Takahiro Tanaka **22:20 - 22:40** **Resonance of Extreme Mass Ratio Inspirals In a Perturbed Kerr Spacetime** Zhen Pan, Huan Yang, Laura Bernard, Beatrice Bonga **22:40 - 23:00** **Testing GR with large catalogs: the cosmic variance of hierarchical tests** Costantino Pacilio **23:10 - 23:30** **Gravitational waves or electromagnetic counterpart? No need to choose** Raphaël Mignon-Risse, Peggy Varniere, Fabien Casse **23:30 - 23:50** **Detectability of environmental effects in compact mergers through higher-order gravitational-wave modes: the case of bosonic scalar-fields** Samson Leong, Juan Calderón Bustillo, Miguel Gracia-Linares, Pablo Laguna

22nd Jul 2023

	1	2	3
00:00 - 01:00		**15b-2 Modeling GW sources** Deborah Ferguson **00:00 - 00:20** **Outlook for detecting gravitational wave memory effects with ground-based detectors** Alexander M Grant, David A Nichols **00:20 - 00:40** **Calculating the gravitational waves emitted from high-speed sources** Han Yan, Xian Chen, Alejandro Torres-Orjuela **00:40 - 01:00** **Inferring neutron star properties with continuous gravitational waves** Neil Lu, Karl Wette, Susan M Scott, Andrew Melatos	**15b-3 Tests of General Relativity** Yuta Michimura **00:00 - 00:20** **Gravitational Wave Lens Reconstruction** Jason Poon, Otto Akseli Hannuksela, Stefano Rinaldi **00:20 - 00:40** **Unveiling Biases in IMR Consistency Test: Exploring the Influence of Lensed Gravitational Waves** Apratim Ganguly, Anuj Mishra **00:40 - 01:00** **The role of astrophysical effects in testing general relativity with gravitational waves from double white dwarfs** Shu Yan Lau, Kent Yagi, Phil Arras