

41st Jim Isenberg Pacific Coast Gravity Meeting

Cal State Fullerton, Steven G. Mihaylo Hall room 1406

Welcome Friday, April 4

8:20 AM		Coffee & continental breakfast
8:50 AM	Geoffrey Lovelace	Welcome & announcements

Session I Friday, April 4

9:00 AM	Vladimir Strov	LISA double white dwarf binaries as Galactic accelerometers
9:15 AM	Tyler Smith*	Isolated But Not Alone: Binary Black Hole Mergers
9:30 AM	Isabella Pretto*	Automated multimode fitting of binary black hole ringdowns
9:45 AM	Brian Seymour*	Inspiral tests of general relativity and waveform geometry
10:00 AM	Tousif Islam	Data-driven extraction, phenomenology and modeling of eccentric harmonics in binary black hole merger waveforms
10:15 AM	Jarosław Kopeński	Conformal geometry of spacetimes with prescribed asymptotic behavior

10:30 AM – 11:00 AM **Coffee break**

Session II Friday, April 4

11:00 AM	Marceline Bonilla	Rescaled ppE Parameters for Parameter Estimation Across PN Order
11:15 AM	Kai-Isaak Ellers*	How to measure gravitational frame-dragging on Earth with a superfluid interferometer
11:30 AM	Ryan Johnson*	Correcting Compact Binary Inspiral Gravitational Waveform Uncertainty in Bayesian Inference Parameter Estimation
11:45 AM	Daniel Hooker*	Testing Generalized Uncertainty Principles via Coherent States
12:00 PM	Daniel Grass*	Photon counting interferometry to detect geotropic space-time fluctuations with GQuEST
12:15 PM	Ajit Kumar Mehta	Constraints on high-mass black hole populations from a search incorporating higher harmonics

12:30 PM – 2:00 PM **Lunch**

* *Student presenter*

41st Jim Isenberg Pacific Coast Gravity Meeting

Cal State Fullerton, Steven G. Mihaylo Hall room 1406

Session III		Friday, April 4
2:00 PM	Quentin Bailey	Aspects of spacetime-symmetry breaking and gravity
2:15 PM	Zi-Yue Wang*	The D-series minimal string theory
2:30 PM	David Grabovsky*	Spin-Refined Partition Functions and CRT Black Holes
2:45 PM	Colin Weller*	Classifying Isospectrality Beyond General Relativity
3:00 PM	Sang-Eon Bak*	Modular Hamiltonian Fluctuations in Cosmology
3:15 PM	Krishan Saraswat	Constraints from Entanglement Wedge Nesting for Holography at a Finite Cutoff
3:30 PM – 4:00 PM		Coffee break

Session IV		Friday, April 4
4:00 PM	Himanshu Chaudhary*	How accurate is SpEC?
4:15 PM	Taylor Knapp*	A detailed look on the accuracy of BBH simulations with SpEC
4:30 PM	Dongze Sun*	Parameter matching between Post-Newtonian and Numerical Relativity for binary black hole systems
4:45 PM	Guido Da Re*	Modeling the BMS transformation induced by a binary black hole merger
5:00 PM	Arthur Fischer	An Algorithmic Approach to the Cauchy Problem for the Einstein Field Equations

41st Jim Isenberg Pacific Coast Gravity Meeting

Cal State Fullerton, Steven G. Mihaylo Hall room 1406

Welcome		Saturday, April 5
8:20 AM		Coffee & continental breakfast
Session V		Saturday, April 5
9:00 AM	Emily Wuchner	Simulating the Recovery of Tidal Parameters From Neutron-Star Mergers With Ground-Based Gravitational-Wave Detectors
9:15 AM	James Kwon*	Impact of nonlinear hydrodynamics on g-modes in neutron stars in coalescing binaries
9:30 AM	Philip Sarkisian*	Electrodynamics in an Expanding Universe
9:45 AM	Isaac Legred*	Nuclear physics and extreme gravity
10:00 AM	Andrew Laeuger*	Ringdown Stability and Localized Matter Distributions
10:15 AM	Yoonsoo Kim*	Monster shocks and black hole pulsars from neutron star--black hole mergers
10:30 AM – 11:00 AM		Coffee break
Session VI		Saturday, April 5
11:00 AM	Guanyu Lu*	Arbitrarily Negative ADM Mass for Kaluza-Klein Bubbles
11:15 AM	Henry Leung*	New bulk cone singularities in Vaidya-like spacetimes from large c conformal blocks
11:30 AM	Sawyer Star*	Solutions to Modified Uniform Accelerating Motion and Their Rindler Coordinates
11:45 AM	Nauman Ibrahim*	On the road to estimating the Weyl curvature in a causal set
12:00 PM	Dario Walter-Cardona*	Lorentz Symmetry Breaking as a nonlinear ODE
12:15 PM	Joonhwi Kim*	Newman-Janis Algorithm from Taub-NUT Instantons
12:30 PM – 2:00 PM		Lunch

41st Jim Isenberg Pacific Coast Gravity Meeting

Cal State Fullerton, Steven G. Mihaylo Hall room 1406

Session VII		Saturday, April 5
2:00 PM	Kyle Nelli*	Simulating Binary Black Holes with SpECTRE
2:15 PM	Alexandra Macedo*	Improvements to SpECTRE's Computational Domain for Binary Black Hole Simulations
2:30 PM	Alex Carpenter*	Simulating Unequal Mass and Precessing Binary Black Holes with SpECTRE
2:45 PM	Kumar Virbhadra	Black hole lensing
3:00 PM	Richard Cook	The Gravitational Analog of Maxwell's Equations: A Solution to the Vacuum-energy and Cosmological-constant Problems within Conventional General Relativity
3:15 PM	Brian Tillotson	Does gravitation emerge from a neutrino-antineutrino plasma?
3:30 PM – 4:00 PM		Coffee break
Session VIII		Saturday, April 5
4:00 PM	Gh. Saleh	A New Perspective on the Structure, Model, and Mechanism of Gravity
4:15 PM	David Lindsay	wCDM with $w < -1$ can solve the Hubble Tension, but destroys the universe
4:30 PM	Don V Black	Mass Detection via Time Dilation
4:45 PM	Frank Hafner	Can an added degree of freedom of motion relate to gravity
5:00 PM	Geoffrey Lovelace	Announcement of the DGRAV student prize winner