

# PiTP 2025 — POSTER SESSION 1

name	institution	poster title
Som Dev Bishoyi	University of Massachusetts Dartmouth	Exact Boundary Conditions for the Teukolsky equation
Viviana Cáceres	Pennsylvania State University	Post-Newtonian-Inspired Models for Gravitational Wave Mode Amplitudes Near Merger
Adam Clark	University of Birmingham	Strong Field Scattering of Black Holes: Exploring Gauge Flexibility
Teagan Clarke	Monash University	Inferring Jet Physics from Neutron Star-Black Hole Mergers with Gravitational Waves
Gaia Fabj	Niels Bohr Institute	Eccentric Mergers in the Disks of Active Galactic Nuclei
Serena Giardino	Max Planck Institute for Gravitational Physics	Testing modified gravity with gravitational waves lensing
Alex (Hanselman) Guerrero	University of Chicago	Gravitational-wave dark siren cosmology systematics from galaxy weighting
Kai Hendriks	Niels Bohr Institute	Gravitational Wave Phase Shifts from 3-body Interactions in Star Clusters
Henry Huang	Cornell University	Punctured Cauchy Evolution of Einstein Equation with Second-Order CCZ4 System
Sercan Hüsünül	Perimeter Institute for Theoretical Physics	Investigating Sourced Carrollian Fluids Dual to Black Hole Horizons
Aasim Jan	University of Texas at Austin	Numerical Relativity's Continued Impact on Gravitational Waves
Amanda Karis	Tufts Univeristy	Bayes Factor Estimators: Thermodynamic Integration and Steppingstone
Sanika Khadkikar	Pennsylvania State University	The Masquerade of Stars
Bjorn Larsen	Yale University	Improving PTA Gravitational Wave Searches with Customized Pulsar Noise Models
Jinzheng Li	Northeastern University	Supercooled Phase Transitions: Why Thermal History of Hidden Sector Matters in Analysis of Pulsar Timing Array Signals
Tong Ou	University of Chicago	Gravitational waves from first-order cosmological phase transitions
Irvin Rodriguez	Carnegie Mellon University	Modeling compact objects as perfect fluids
Sreetta Roy	University of Warsaw	Binary White Dwarfs as Gravitational Wave Sources
Helena Ubach	University of Barcelona	Self-lensing signatures to distinguish the environment of compact binary mergers
Emma Weller	Yale University	Wandering black holes
Luka Vujeva	Niels Bohr Institute	Effects of Dark Matter Subhalos on Lensed Gravitational Waves

# PiTP 2025 — POSTER SESSION 2

name	institution	poster title
Fawzi Aly	SUNY at Buffalo	GEM Hunting in Multi-Messenger Astrophysics
Darsh Bellie	Northwestern University	Expanding the family tree: data-driven modeling of hierarchical mergers
Tousif Islam	Kavli Institute for Theoretical Physics	Data driven decomposition and modeling of eccentric binary black hole merger waveforms
Fulya Kiroglu	Northwestern/CIERA	<i>Beyond Hierarchical Mergers: Accretion-Driven Origins of Massive, High-Spin Binary Black Holes in Dense Star Clusters</i>
Sid Mahesh	West Virginia University	Spinning Effective- and Backwards-One Body (SEBOB): combining EOB inspirals and BOB merger-ringdowns for aligned spin black hole binaries
David O'Neill	Niels Bohr Institute	Gaseous Dynamical Friction on Keplerian Orbits
John Ostor	Radboud University	Nonlinear QNMs at the event horizon
Samantha Rath	University of New Hampshire	Investigating Neutrino-Matter Interactions in Neutron Star Mergers
Adhrit Ravichandran	University of Massachusetts Dartmouth	Numerical Relativity Surrogate for Waveforms and Remnant BH Properties from Non-Spinning Unequal-Mass Eccentric BBHs
Alberto Revilla	University of Barcelona	Detectability of Resonances during Neutron Star Inspiral
Soumendra Kishore Roy	Stony Brook/ CCA	Focusing on the 35 Solar Mass Peak with GWTC-3 Data
Alberto Salvarese	University of Texas at Austin	Standard sirens cosmology
Arindam Sharma	University of Mississippi	Measuring the Shape of the Universe with Gravitational Waves
David Sola Gil	University of Southampton	Linear scalar instabilities in B72 and global AdS3
Mathieu Venet	Institut d'Astrophysique de Paris, SU CNRS	The influence of key stellar evolution parameters on binary neutrons stars formation channels
Jay Wadekar	Johns Hopkins University	Best of both worlds: integrating principled matched-filtering searches with AI/ML tools
Jiaxi Wu	California Institute of Technology	Unveiling the electrodynamic nature of spacetime collisions
Muhammad Zeeshan	Rochester Institute of Technology	GWKokab: An Implementations to Identify the Properties of Multiple Population of Gravitational Wave Sources
Qinyuan Zheng	Yale University	A Bayesian Search for picoHertz Gravitational Waves with Millisecond Pulsars
Haowen Zhong	University of Minnesota	A Two-Step Procedure to Detect Cosmological Gravitational Wave Backgrounds with Next-Generation Terrestrial Gravitational-Wave Detectors