

Stellar black hole formation and detection

Monday, March 24, 2025 - Friday, March 28, 2025

Yukawa Institute for Theoretical Physics, Kyoto University (YITP)

Scientific Program

OVERVIEW TALKS

Black holes in interacting X-ray binaries in the Milky Way - Arash Bahramian (Curtin University)

Failed supernovae and black hole formation - Emma Beasor (University of Arizona)

Constraining lower mass black hole progenitors with Gaia astrometric binaries - Katie Breivik (Carnegie Mellon University)

Simulations of very massive stars for black hole formation - Ken Chen (Academia Sinica Institute of Astronomy and Astrophysics)

Massive star binarity/multiplicity for black hole progenitors - Abigail Frost (European Southern Observatory Chile)

Angular momentum transport in black hole progenitors - Jim Fuller (Caltech)

Binary evolution processes in black hole progenitor systems - Monica Gallegos Garcia (Harvard CfA)

Gravitational wave templates and measuring black hole spin in binary black hole mergers - Davide Gerosa (University of Milano-Bicocca)

Simulations of fallback supernova in the context of black hole progenitors - Thomas Janka (Max Planck Institute for Astrophysics)

Black holes in the Milky Way found with microlensing - Casey Lam (Carnegie Observatories)

Final black hole mass dependence on stellar progenitors - Eva Laplace (KU Leuven)

Pair Instability Supernovae: Models, Candidates, and Impact on the Black Hole Mass Distribution - Conor Omand (Liverpool John Moores University)