

Astrophysics Across the Gravitational Wave Spectrum

Joey Shapiro Key, University of Washington Bothell

Observational gravitational wave astronomy presents challenges and opportunities as we prepare for new missions and seek to optimize our discovery capabilities. New discoveries are made possible by the development of incredible detector technologies and critical advancements in data science which have matured along with the observatories' capabilities. Developments in computational and data science techniques will maximize the science output for our gravitational wave observatories. Gravitational wave astronomers across the observing spectrum are adopting open data policies and open source code practices. The future of gravitational wave astronomy includes the potential for discoveries in physics and astronomy as well as the opportunity to lead the way for open science with access to both data and analysis.