Astrophysics > High Energy Astrophysical Phenomena

Unraveling Binary Evolution from Gravitational-Wave Signals and Source Statistics

Ilya Mandel, Vicky Kalogera, Richard O'Shaughnessy

(Submitted on 14 Jan 2010 (v1), last revised 19 Jan 2010 (this version, v2))

The next generation of ground-based gravitational-wave detectors are likely to observe gravitational waves from the coalescences of compact-objects binaries. We describe the state of the a for predictions of the rate of compact-binary coalescences and report on initial efforts to develop a framework for converting gravitational-wave observations into improved constraints on astrophysical parameters.

Comments: Proceedings of Marcel Grossmann 12

Subjects: High Energy Astrophysical Phenomena (astro-ph.HE); Cosmology and Extragalactic Astrophysics (astro-ph.CO); General Relativity and Quantum Cosmology (gr-qc) Cite as: arXiv:1001.2583v2 [astro-ph.HE]

Submission history

From: Ilya Mandel [view email] [v1] Thu, 14 Jan 2010 23:35:23 GMT (48kb) [v2] Tue, 19 Jan 2010 04:39:10 GMT (48kb)

Which authors of this paper are endorsers?

Link back to: arXiv, form interface, contact.