

Theory Seminar

Monday, February 6, 2012 2:10 PM 831 Pupin Hall

Advances in Solving the Two-Body Problem in General Relativity: Implications for the Search of Gravitational Waves

The research at the interface between analytical and numerical relativity has deepened our understanding of the two-body problem in general relativity, revealing an intriguing simplicity and universality of the merger signal of coalescing black holes. I will discuss how the so-called effective-one-body approach offers a natural explanation for these results, and explain the importance of accurate modeling for extracting the best science upon detection of gravitational waves.



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