

Events

[Current Events](#)[Lectures ▾](#)[Events Archive ▾](#)

Special Guest Lectures

Probing the Binary Black Hole Merger Regime with Scalar Perturbations**Eloisa Bentivegna, Pennsylvania State University**

Research Assistant, Penn State's Center for Gravitational Wave Physics

Johnston Hall 338
January 29, 2008 - 02:00 pm**Abstract:**

Over the past two years, numerical simulations have accessed the merger phase of binary black hole coalescences for the first time, beginning to unveil the physics of the transition between the inspiraling system and the final distorted black hole. In this talk, I will present a study of this regime based on the evolution of a massless scalar field on a set of fixed backgrounds, each provided by a spatial hypersurface generated numerically during the merger.

Speaker's Bio:

Eloisa Bentivegna received her Ph.D. in Physics, Minor in High Performance Computing from Penn State University.