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Dale Choi* (choi@milkyway.gsfc.nasa.gov), Supercomputing Center, KISTI, P.O. Box 122, Yuseong, Daejeon, South Korea. *Simulations of Binary Black Hole Mergers*.

Coalescence of binary black holes is currently one of the most important topics in numerical relativity. It is among the prime astrophysical sources of gravitational radiations. Accurate calculations of gravitational waveforms generated from binary black hole mergers will play crucial roles in understanding the observed signals. The system also provides a fertile arena to study the dynamical, strong-field, and non-perturbative regimes of general relativity in compact objects. Rich phenomenology one can expect from such interactions of binary black holes still remains largely unexplored. In this talk, I will review some of the recent progress and discuss numerical analysis issues involved in the simulations.

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