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Harald P Pfeiffer* (pfeiffer@cita.utoronto.ca), CITA, University of Toronto, 60 St. George Street, Toronto, Ontario M5S 3H8, Canada. *Simulations of black hole binaries: Techniques and results for precessing binaries.*

Numerical studies of binary black holes are motivated by the desire to solve the general relativistic two body problem, and because of their importance for gravitational wave detectors like LIGO. Generically, black hole binaries will carry spins which cause the orbital plane and each spin-vector to precess. This talk presents techniques to efficiently simulate precessing binaries and discusses results of simulations of precessing binaries. (Received July 08, 2012)