

Abstract Submitted
for the APR17 Meeting of
The American Physical Society

Comparing the numerical redshift factor to analytic theory

AARON ZIMMERMAN, ADAM G. M. LEWIS, HARALD P. PFEIFFER, CITA

— The redshift factor z is a quantity of fundamental interest in Post-Newtonian and self-force descriptions of binaries, allowing for interconnections between each theory. We have recently implemented a method for extracting the redshift factor from numerical simulations of binary black holes, and compared the redshift factor to analytic theory. I will present an update on our efforts to extend our analysis to high mass ratio simulations, in order to compare to self-force predictions.

Aaron Zimmerman
CITA

Date submitted: 29 Sep 2016

Electronic form version 1.4