Abstract Submitted
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openGR: An Infrastructure for Numerical Relativity PAUL WALTER, St. Edward's University, ANDREA NEROZZI, CENTRA - University of Lisbon, MATT ANDERSON, Indiana University - Bloomington, RICHARD MATZNER, JON ALLEN, GREG MCIVOR, MATT SELOVER, University of Texas at Austin, ULI SPERHAKE, University of Cambridge — We present the current state of the code *openGR*, which is a modular, open framework developed to carry out simulations of binary black hole mergers. While designed with the two-body problem in mind, *openGR* will evolve most general vacuum spacetimes. The code is based on the adaptive mesh refinement library `SAMRAI`. We describe the main features of the code and give the results of simulations of head-on binary black hole mergers. We will discuss the scaling properties of *openGR* and its overall status. The code will be made publicly available.

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