Abstract Submitted
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Electromagnetic Radiation from Neutron Stars FORREST GLINES, Brigham Young University — Binary neutron stars are likely candidates for the sources of short, hard Gamma Ray Bursts (GRBs). We study the possible electromagnetic radiation from a binary neutron star merger event using data from a fully relativistic simulation, and then solving the classical radiation equation along geodesics in the space-time. The emission model includes bremsstrahlung and black-body radiation, and Kramer's opacity law is used for absorption. We compare the current results with a finite-temperature nuclear equation of state to earlier results using the ideal gas equation of state.

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