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General Relativistic Numerical Simulations of Coalescing Binary Neutron Stars with Adaptive Mesh Refinement Methods JIAN TAO, Center for Computation and Technology at LSU, WAI-MO SUEN, Washington University in St. Louis, RANDY WOLFMEYER, University of Wisconsin-Milwaukee, HUI-MIN ZHANG, Washington University in St. Louis, WASHINGTON UNIVERSITY GRAVITY GROUP TEAM — The poster reports the progress made in the construction of an adaptive mesh refinement enabled numerical code, GR-Astro, which enables such simulations, and its applications to the neutron star inspiral coalescences. Making use of the developments described above, we studied coalescing binary neutron star systems.

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