

Abstract Submitted
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Binary neutron stars with spin¹ WOLFGANG TICHY, Florida Atlantic University — Astrophysical neutron stars are expected to be spinning. Due to the existence of millisecond pulsars we know that these spins can be substantial. Spin periods of a few dozen milliseconds will influence the inspiral and potentially also the merger of binary neutron stars. We have developed a new method to set up binary neutron star initial data, where both stars can have arbitrary spins. We use these new initial data as a starting point for numerical simulations. We present preliminary results where we compare simulations of equal mass binaries with and without spin.

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