国立天文台天文シミュレーションプロジェクト成果報告書

Merger of binary neutron stars

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Last year, I continued a series of small and sporadic simulations aimed at comparing the effect of magnetic fields on the result of the merger of binary neutron stars, namely the formed hyper-massive neutron star, which may then collapse to a rotating black hole, possibly leaving a dense torus outside the horizon. This work is being slowed down by my new duties at Osaka University and is not finished, though.