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Neutron stars in binaries, status and a bright future

LUIS LEHNER, Louisiana State University

Neutron stars in compact binaries not only are important sources of gravitational waves but are also thought responsible for powering fascinating phenomena. Simulations studying these systems have already revealed interesting dynamics even when all relevant physical processes could not be incorporated. This talk will provide a broad picture of what has so far been achieved, highlight particular examples and argue the (near) future promises to be quite exciting.