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Gravitational Quadrupole Emission in an MSP binary

Abstract

PSR J2051-0827 is a millisecond pulsar in a very tight binary with a semi-degenerate companion. The proximity of the pulsar and its companion leads to gravitational interaction between them, which imprints a specific signature on the time of arrival of 'pulses' from the pulsar. I will present updated results of the high-precision pulsar timing of PSR J2051-0827 and briefly discuss the models of gravitational quadrupole variation which have been applied to this system.