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## Gravitational-Wave Signals in Extended Theories of Gravity

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Once the Einsteinian paradigm is abandoned, the phenomenology of neutron stars changes dramatically since neutron-star masses can be much larger than their General Relativity counterparts. Consequently, the total energy available for radiating gravitational waves could be of the order of several solar masses, and thus a merger of these stars constitutes a privileged wave source. This opens the door to a careful study of novel gravitational-wave signals as extracted from extended theories of gravity.

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