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Gravitational waves through inflaton decay into a pair of Rarita-Schwinger fields

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The idea of cosmic inflation stands on the firm ground of observations from Big Bang nucleosynthesis and the cosmic microwave background. However, a missing piece remains—reheating—which connects inflation to the radiation-dominated universe, a crucial stage for the nucleosynthesis process. A key observable of the reheating stage is stochastic gravitational waves, generated by the decay of the inflaton into light degrees of freedom. In this work, we explore gravitational waves generated during the decay of the inflaton into a pair of Rarita-Schwinger fields.

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