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Gravitational Waves in the Primordial Universe

This work aims to study gravitational waves in the primordial universe. Using the short wave approximation, it is possible to find the propagation equations of gravitational waves in a curved background. These equations make it possible to find the gravitational waves emitted in the primordial universe, using the FLRW metric, which is the standard metric for cosmology studies.

Keywords: Gravitational Waves. Shortwave approximation. Curved background Universe

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