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Detecting Gravitational Waves from the Early Universe

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Around 10 picoseconds after the Big Bang it is thought a cosmological electroweak phase transition occurred. In certain BSM theories such a transition can occur via a first order phase transition, which would lead to the production of gravitational waves. Such a source would form a stochastic background observable with the upcoming LISA mission. I will discuss this signature and the methods currently being developed to extract information relating to BSM physics from LISA data.

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