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Large Gravitational Waves in String-Inflation

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The potential detection of gravitational waves from string inflation would provide essential complementary information to measurements of the scalar spectral index. E.g. it can tell us directly the size of the inflationary potential. It is, however, clear that warped brane inflation (in case it can be tuned to give inflation) cannot lead to measurable gravitational waves. We will discuss in this talk other realizations of string inflation which lead naturally to a tensor fraction $r = T/S$, which lies comfortably within the expected observable window of $0.3 > r > 10^{-3}$. We will also address how the problem of satisfying the Lyth bound can be solved in these realizations, at the same time.

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