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Gravitational waves from spectator Gauge-flation

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Nowadays, the search for primordial gravitational waves is mainly focused on the parity-odd polarization pattern in the CMB the B-modes. A correct interpretation of B-mode measurements strongly relies on understanding their production mechanism. One intriguing scenario is gravitational waves generation by gauge fields. This talk describes the viability of inflation with a spectator sector comprised of non-Abelian gauge fields coupled through a higher order operator. I will discuss the theoretical restrictions for the amplitude and tensor tilt for chiral gravitational waves as well as the maximum possible enhancement of the gravitational wave background with respect to the one coming from vacuum fluctuations.

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