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Gravitino production during inflation

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In this talk I will review the dynamics of supergravity models in inflation, focusing especially on the amplification of the modes of the gravitino induced by the time-dependent background. In particular, I will show that in certain well-motivated models in supergravity, gravitinos are produced during inflation, and in their turn source scalar metric perturbations. This process modifies the tensor-to-scalar ratio, allowing to revive models of inflation that, in the absence of supersymmetry, are ruled out by observation.

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