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Particle production in an early supersymmetric universe

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The mechanism of preheating in supersymmetric models of inflation will be introduced in context of existence of flat directions. Flat directions, a typical feature of supersymmetric models, can acquire large vacuum expectation values (VEVs) during inflation. A recent discussion about the impact of such large VEVs on the process of non-perturbative particle production will be presented, signaling the role of supergravity corrections.

Auteur principal: Mme KAMINSKA, Anna (University of Warsaw, Institute of Theoretical Physics)

Co-auteur: M. PACHOLEK, Pawel (University of Warsaw, Institute of Theoretical Physics)

Orateur: Mme KAMINSKA, Anna (University of Warsaw, Institute of Theoretical Physics)

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