

Title: A light stop and electroweak baryogenesis

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Abstract: The possibility of creating baryon asymmetry at the electroweak phase transition in the minimal supersymmetric standard model is considered for the case when right-handed squarks are much lighter than left-handed ones. It is shown that the usual requirement $\epsilon(T-c)/T-c$ greater than or similar to 1 for baryogenesis can be satisfied in a range of the parameters of the model, consistent with present experimental bounds.

KeyWords Plus: Model CP-Violation; Supersymmetric Standard Model; Phase-Transition; Baryon Asymmetry; Finite-Temperature; Symmetry Behavior; Gauge; Universe

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