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Aspects of CP violation in electroweak baryogenesis

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We discuss the aspects of CP-violating effects on electroweak baryogenesis in models where an extra Higgs doublet, a singlet and electroweak-interacting fermions are added. It is found that one CP-phase that directly relates the baryon asymmetry of the Universe (BAU) to the electric dipole moment (EDM) exists. Moreover, it is obtained that the parameter region for the successful BAU can be verified by the electron EDM in near future.

Summary

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