

Probing SUSY CP phases at colliders

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In the Minimal Supersymmetric Standard Model, physical phases of complex parameters lead to CP violation. We show how triple products of particle momenta or spins can be used to construct asymmetries, that allow us to probe these CP phases. We discuss the production of charginos and neutralinos at the International Linear Collider (ILC). For the Large Hadron Collider (LHC), we discuss CP asymmetries in squark decays, and in the trilepton signal. We find that the CP asymmetries can be as large as 40 %.

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