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Gaugino annihilation and co-annihilation with DM@NLO

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A powerful method to constrain the MSSM parameter space is to compare the predicted dark matter relic density with cosmological precision measurements, in particular the Planck data. On the particle physics side, the main uncertainty for a given spectrum arises from the (co-)annihilation cross sections of the dark matter particle. After a motivation for including higher order corrections in the prediction of the relic density, recent results on the impact of gaugino (co-)annihilation on neutralino dark matter calculated at NLO in SUSY QCD will be discussed.

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