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POLXINO: Neutralino, chargino, and gluino two-loop pole mass calculator

Thursday 3 July 2008 16:00 (20 minutes)

POLXINO is a C-program for the numerical evaluation of the pole masses of neutralinos, charginos and the gluino in the MSSM with the full set of complex input parameters. The renormalization is performed in the DR-bar' scheme as proposed in the SPA convention. Up to now it contains the full one-loop level and the two-loop SUSY-QCD as well the leading two-loop Yukawa coupling corrections. Currently, it is the only publicly available program for the calculation of even the one-loop chargino and neutralino pole masses with complex parameters. For the calculation of the two-loop self-energy integrals it uses the TSIL library. For convenience, it provides also an SLHA-interface.

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