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GM2Calc - A tool for calculating the muon (g-2) in the MSSM

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We present GM2Calc, a stand-alone C++ program which calculates the supersymmetric contributions to the anomalous magnetic moment of the muon in the Minimal Supersymmetric Standard Model. Besides the one-loop contributions, two-loop corrections coming from SUSY one-loop diagrams with an additional photon exchange or a fermion/sfermion loop insertion as well as two-loop corrections to SM-like one-loop diagrams are taken into account. Furthermore tan(beta)-enhanced terms are resummed to all orders, which allows the limit tan(beta) -> infinity. The input can be given either as SLHA file or via a custom interface which uses on-shell parameters.

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