

Soft gluon resummation for Slepton pair-production

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We use a recent approach to threshold soft gluon resummation, based on effective field theory, to quantify the dynamical enhancement of the partonic threshold region for Drell-Yan and slepton pair production in supersymmetry. We evaluate the resummed invariant mass distribution and total cross section at the NNLL order, and match the result onto NLO fixed order calculation.

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