



Contribution ID: 101

Type: **not specified**

## Soft gluon resummation for Drell-Yan and slepton-pair production in supersymmetry

*Wednesday 1 June 2011 18:45 (15 minutes)*

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 cross section at the NNLL order, and match the result onto NLO fixed-order calculation.

**Authors:** Mr BROGGIO, Alessandro (Johannes Gutenberg Universität); Dr VERNAZZA, Leonardo (Johannes Gutenberg Universität); Prof. NEUBERT, Matthias (Johannes Gutenberg Universität)

**Presenter:** Dr VERNAZZA, Leonardo (Johannes Gutenberg Universität)

**Session Classification:** P12 –COLLIDER PHENOMENOLOGY