# Citation guidance

## Prospino2.1

- Squarks and gluinos: [1, 2]
- Stop pairs or sbottom pairs: [1, 3]
- Neutralino, chargino or slepton pairs: [1, 4]
- Neutralino/chargino and gluino: [1, 5, 6]
- Neutralino/chargino and squarks [1, 6]
- One may also include original Prospino references: [7, 8, 9, 2]

#### **NLL-fast**

- Squarks and gluinos: [10, 2, 11, 12, 13, 14] (and [15] if v3.1)
- Stop (sbottom) pair-production: [10, 3, 16, 14] (and [15] if v3.1)

### **NNLL-fast**

- Squarks and gluinos:[17, 18, 2, 11, 12, 13, 19, 20, 21]
- Stop (sbottom) pair-production: [17, 18, 3, 16, 22]

### References

- [1] Prospino2. https://www.thphys.uni-heidelberg.de/~plehn/index.php?show=prospino.
- [2] W. Beenakker, R. Hopker, M. Spira, and P. M. Zerwas, Squark and gluino production at hadron colliders, Nucl. Phys. B492 (1997) 51–103 [hep-ph/9610490].
- [3] W. Beenakker, M. Kramer, T. Plehn, M. Spira, and P. M. Zerwas, Stop production at hadron colliders, Nucl. Phys. B515 (1998) 3-14 [hep-ph/9710451].
- [4] W. Beenakker, et al., The Production of charginos / neutralinos and sleptons at hadron colliders, Phys. Rev. Lett. 83 (1999) 3780-3783 [hep-ph/9906298] [Erratum ibid. 100 (2008) 029901].
- [5] M. Spira in Supersymmetry and unification of fundamental interactions. Proceedings, 10th International Conference, SUSY'02, Hamburg, Germany, June 17-23, 2002, pp. 217–226. 2002. hep-ph/0211145.
- [6] T. Plehn in Physics at LHC. Proceedings, Conference, PHLC 2004, Vienna, Austria, July 13-17, 2004, Czech. J. Phys. 55 (2005) B213-B220 [hep-ph/0410063].
- [7] W. Beenakker, R. Hopker, and M. Spira, PROSPINO: A Program for the production of supersymmetric particles in next-to-leading order QCD. hep-ph/9611232.
- [8] W. Beenakker, R. Hopker, M. Spira, and P. M. Zerwas, Squark production at the Tevatron, Phys. Rev. Lett. 74 (1995) 2905–2908 [hep-ph/9412272].
- [9] W. Beenakker, R. Hopker, M. Spira, and P. M. Zerwas, Gluino pair production at the Tevatron, Z. Phys. C69 (1995) 163-166 [hep-ph/9505416].

- [10] NLL-fast. https://www.uni-muenster.de/Physik.TP/~akule\_01/nnllfast/doku.php?id=nllfast.
- [11] A. Kulesza and L. Motyka, Threshold resummation for squark-antisquark and gluino-pair production at the LHC, Phys. Rev. Lett. 102 (2009) 111802 [arXiv:0807.2405].
- [12] A. Kulesza and L. Motyka, Soft gluon resummation for the production of gluino-gluino and squark-antisquark pairs at the LHC, Phys. Rev. D80 (2009) 095004 [arXiv:0905.4749].
- [13] W. Beenakker, et al., Soft-gluon resummation for squark and gluino hadroproduction, JHEP 12 (2009) 041 [arXiv:0909.4418].
- [14] W. Beenakker, et al., Squark and Gluino Hadroproduction, Int. J. Mod. Phys. A26 (2011) 2637-2664 [arXiv:1105.1110].
- [15] W. Beenakker, et al., NLO+NLL squark and gluino production cross-sections with threshold-improved parton distributions, Eur. Phys. J. C76 (2016) 53 [arXiv:1510.00375].
- [16] W. Beenakker, et al., Supersymmetric top and bottom squark production at hadron colliders, JHEP 08 (2010) 098 [arXiv:1006.4771].
- [17] NNLL-fast. https://www.uni-muenster.de/Physik.TP/~akule\_01/nnllfast/doku.php?id=start.
- [18] W. Beenakker, C. Borschensky, M. Krmer, A. Kulesza, and E. Laenen, NNLL-fast: predictions for coloured supersymmetric particle production at the LHC with threshold and Coulomb resummation, JHEP 12 (2016) 133 [arXiv:1607.07741].
- [19] W. Beenakker, et al., NNLL resummation for squark-antisquark pair production at the LHC, JHEP 01 (2012) 076 [arXiv:1110.2446].
- [20] W. Beenakker, et al., Towards NNLL resummation: hard matching coefficients for squark and gluino hadroproduction, JHEP 10 (2013) 120 [arXiv:1304.6354].
- [21] W. Beenakker, et al., NNLL resummation for squark and gluino production at the LHC, JHEP 12 (2014) 023 [arXiv:1404.3134].
- [22] W. Beenakker, et al., NNLL resummation for stop pair-production at the LHC, JHEP 05 (2016) 153 [arXiv:1601.02954].