



Contribution ID: 73

Type: **not specified**

Mellin-space resummation for (boosted) top-quark pair production

Top quark pair production is very important from many aspects at the LHC. So even more accurate prediction is necessary. In this work, we deal with the resummation of boosted top-quark pairs production, which allows the simultaneous resummation of both soft and small-mass logarithms. After matched with the standard soft-gluon resummation and fixed order results, it will give the state of the art predictions for differential cross sections predictions. And also, the formalism used here is a contribution to SCET.

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