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N^3 LO threshold corrections for top-pair and single-top production

Tuesday, 4 August 2015 14:00 (30 minutes)

I present a calculation of higher-order corrections from NNLL threshold resummation for cross sections and differential distributions in top-antitop pair production and in single-top production. I show that soft-gluon threshold corrections are the dominant contribution to top-quark production and closely approximate exact results through NNLO. I show a N^3 LO results for the total $t\bar{t}$ cross section, the top-quark p_T and rapidity distributions, and the top-quark forward-backward asymmetry. I also present aNNLO results for total cross sections and p_T distributions in t -channel, s -channel, and tW -channel single-top production.

Oral or Poster Presentation

Oral

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