

Rethinking Quantum Field Theory



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**Rethinking
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Three-jet production in electron-positron annihilation with the ColorFulNNLO method

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In my talk I introduce the ColorFulNNLO method to calculate NNLO QCD corrections to any IR-safe observable in the case of three-jet production in electron-positron annihilation. Provided the ColorFulNNLO method is general it was implemented in a computer code called MCCSM (Monte Carlo for the ColorFulNNLO Subtraction Method). The capabilities of the code are demonstrated by calculating standard event shape variables and comparing them to literature and providing, for the first time, NNLO QCD correction to energy-energy correlation, oblateness and jet cone energy fraction.

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