

Applying Colour-Kinematics Duality to the Unitarity Method

Friday, 15 January 2016 12:00 (25 minutes)

Colour-kinematics duality in tree-level Yang-Mills amplitudes (BCJ relations) invites new possibilities for loop-level computations. In this talk I shall briefly introduce the generalised unitarity approach at one loop. Then, in the context of a 5-gluon, 2-loop QCD amplitude, I will demonstrate how the BCJ relations can be applied to unitarity cuts. This allows leading colour information to be recycled into nonleading colour.

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