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QCD multiplet bases with arbitrary parton ordering (12'+3')

Wednesday 17 October 2018 14:35 (15 minutes)

We have developed an algorithm for recursively constructing orthogonal multiplet bases for the color space of QCD, for any order of partons and any Nc. The basis vectors can be used to calculate Wigner 6j coefficients. These coefficients offer a method of using multiplet bases without resorting to the explicit expressions of the basis vectors, which lead to a significant speed-up compared to other methods of treating full color structure.

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