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Color kinematics duality for Chern-Simons theory

Chern-Simons theory obeys the color-kinematics duality off-shell, and admits an off-shell double-copy. The off-shell duality is the result of there being volume preserving diffeomorphisms hidden in the Feynman rules. This can be extended to the ghost sectors by using a suitable superspace formulation of the theory. On-shell, there is an $N=4$ adjoint matter theory that obeys the duality and can be double-copied, giving amplitudes of (up to) maximally supersymmetric Dirac-Born-Infeld theory in 3D.

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