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Superconformal invariance of scattering amplitudes in N=4 super-Yang-Mills theory

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We discuss the realization of dual and conventional superconformal symmetries on the scattering amplitudes in N=4 SYM. While these symmetries are exact at tree level, they have to be complemented with analytic properties to fully fix the tree. At loop level both symmetries are broken by different mechanisms. We describe the formulation of amplitudes in twistor space and in terms of Grassmannian invariants.

Primary author: SOKATCHEV, Emery (LAPTH, Annecy)

Presenter: SOKATCHEV, Emery (LAPTH, Annecy)