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Scattering amplitudes in maximally supersymmetric Yang-Mills theory

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I will review a recent progress in computing scattering amplitudes in maximally supersymmetric Yang-Mills theory. In addition to the conventional symmetry of the underlying Lagrangian, the scattering amplitudes in this theory exhibit a new, dual superconformal symmetry. This symmetry is powerful enough to completely determine the scattering amplitudes for arbitrary coupling in a suitably defined limit.

Primary author: Prof. KORCHEMSKY, Gregory (CEA Saclay)

Presenter: Prof. KORCHEMSKY, Gregory (CEA Saclay)

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