

Constraints from Superconformal Symmetry

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Correlators of half-BPS operators in $N = 4$ SYM are of massive importance in many research areas, first and foremost AdS/CFT-correspondence and scattering amplitudes. Especially 4- and higher point correlators are of huge interest given, for instance, the wealth of CFT data they contain when utilizing the OPE. Despite their importance, very little is known beyond 4pt functions, primarily due to the lack of a full understanding of the constraints superconformal symmetry places on these object. In this talk, I will present a new method to derive these constraints, the Superconformal Ward Identities, for higher-point correlators of half-BPS operators.

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