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Understanding Constraints of Superconformal Symmetry

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Supersymmetric conformal field theories have gained huge renewed interest, especially due to the Maldacena conjecture relating $N = 4$ supersymmetric Yang-Mills theory to type IIB string theory on $AdS_5 \times S^5$. To gain a better understanding of these theories it is important to study the implications of the $N = 4$ superconformal symmetry in 4 dimensions, $PSU(2,2|4)$, on the observables. In this talk, methods to construct the invariants of four- and higher point correlators under this symmetry group will be discussed. Since the construction focuses on analytic superspace methods, an introduction to this space will be given.

Summary

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