

Cubic vertices for massless higher spin gauge fields in AdS spaces

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Higher spin (HS) gauge theory may be regarded as a generalization of the electromagnetic theory of a spin-1 photon and the linearized gravity of a spin-2 graviton. String theory which has infinitely many massive modes may be seen as a broken phase of the HS gauge symmetry. The higher spin gauge theory is expected to gain a deeper understanding of AdS/CFT duality. To gain more insight into the duality, it is necessary to understand quantum spectrum of string in AdS. This is not achieved yet, because the action of higher spin theory is not completely known in AdS. In this presentation, we consider cubic interaction vertices of bosonic HS fields with spin s_1 , s_2 and s_3 , in flat and AdS spaces.

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