Contribution ID: **38** Type: **not specified**

Cubic vertices for massless higher spin gauge fields in AdS spaces

Thursday, 5 December 2019 15:00 (3 hours)

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 actin of higher spin theory is not completely known in AdS. In this presentation, we consider cubic interaction vertices of bosonic HS fields with spin s1, s2 and s3, in flat and AdS spaces.

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Session Classification: Poster