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Higher-spin extension of (self-dual) Yang-Mills and twistor theory

Twistor actions for higher-spin extension of (self-dual) Yang-Mills (HS-(SD)YM) are constructed via the (inverse) Penrose transform. Due to various theorems on twistor cohomology representatives, it can be shown that the twistor actions for the above theories are unique. We further comment on a remarkable relation between HS-YM and the induced higher-spin theory from the IKKT-matrix model.

Type of contribution

Contributed Talk or Poster

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