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Title:
"A new representation for two- and three-point correlators of operators from sl(2) sector"

Abstract:
We construct a new representation for two- and three-point correlators of operators from sl(2) sector of planar N = 4 SYM. The spin and twist of operators are arbitrary. We start with the correlation function of light-ray operators and carry out a projection to particular local operators using the method of Separated Variables. With the same calculation we obtain polynomials which are dual to wave functions of sl(2, R) spin-chain.