

Twistor action for gamma-deformed SYM

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Twistor space has proved to be a useful tool in the study of space-time field theory. Field theories may be formulated in terms of actions on twistor space, just as in space-time; their enhanced gauge symmetry provides a powerful edge over the space-time description. We find a new result that a gamma-deformation of the well known N=4 SYM theory may be formulated in terms of a twistor action. This in turn leads to a twistor description of the simple ‘conformal fishnet theory’. No previous experience with twistors required!

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