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M. V. Movshev* (mmovshev@math.sunysb.edu), Mathematics Department, Stony Brook University, Stony Brook, NY 11794-3651. *Non Self-Dual Pure Yang-Mills Theory On the Twistor Space.*

For almost forty years the twistor space has been an indispensable tool in the theory of self-dual connections. Are the twistors useful for the full Yang-Mills theory? The answer on this question is in the affirmative. I will explain how one can reformulate the pure Yang-Mills theory on the twistor space using the language of L-infinity algebras. (Received December 07, 2008)