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Integrability from Chern-Simons Theory on Twistor Space

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Insights into the origin of integrability are provided by two 4d gauge theoretic descriptions – 4d Chern-Simons theory and self-dual Yang-Mills theory. Recently, both of these 4d models have been realised as children of a parent theory: 6d holomorphic Chern-Simons theory on twistor space. After a review of these topics, I will discuss our work extending this formalism.

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