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Subleading Regge trajectories in $\mathcal{N} = 4$ SYM

This poster presents a novel class of subleading Regge trajectories (with non-orthogonal intercepts) in $\mathcal{N} = 4$ SYM using the Quantum Spectral Curve (QSC), an integrability-based technique. I show how the standard application of the QSC, valid for leading trajectories, fails for the examined cases, and propose some crucial modifications to the method, which pass non-trivial consistency checks and are backed up by numerical data. The studied trajectories appear in both twist-two and higher-twist operator families, and could be an important stepping stone for an identification of the Odderon intercept in $\mathcal{N} = 4$ SYM, which has not been done conclusively using resummation techniques.

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