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The Hagedorn temperature of AdS5/CFT4 at finite coupling via the Quantum Spectral Curve

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We establish a framework for calculating the Hagedorn temperature of AdS_5/CFT_4 via integrability. Concretely, we derive Quantum Spectral Curve equations that yield the Hagedorn temperature of planar N=4 super Yang-Mills theory at any value of the 't Hooft coupling. We solve these equation perturbatively at weak coupling and numerically at finite coupling. Finally, we comment on extending these result to integrable deformations of N=4 SYM theory and on the inclusion of chemical potentials.

Summary

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