

Conformal field theory 3 ways: integrable, probabilistic, and supersymmetric



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(Quantum) Painlevé / gauge theory correspondence and Heun connection problem

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We discuss the relation between Painlevé equations, supersymmetric gauge theories and Liouville CFT. As an application we show how within this circle of ideas one can solve the connection problem for Heun functions in terms of explicit combinatorial formulae arising from supersymmetric localisation. We also present work in progress on the extension of the correspondence to quantum Painlevé.

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