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Black hole perturbations from Liouville correlators

Reversing the logic of the bootstrap approach in Liouville CFT we explicitly compute the connection formulae for degenerate conformal blocks. In the semiclassical limit of the theory, this amounts to solving the connection problem of Fuchsian ODEs. Generalizing to irregular insertions we solve as well various confluences of the ODE. Concentrating on the Heun equation and its confluences, we solve the wave equations of perturbations of a large class of black holes. As a working example, we focus on the 4d Kerr black hole, and exactly compute the absorption coefficient, QNMs and Love numbers in terms of combinatorial objects exploiting the AGT duality.

Type of contribution

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