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Bootstrability for 1D Defect CFT

I will describe the "bootstrability"program, which combines integrability techniques in 4d N = 4 supersymmetric Yang-Mills (SYM) and the conformal bootstrap to study beyond-the-spectrum observables in a CFT.

Focussing on the 1d defect CFT living on the Maldacena-Wilson line in N = 4 SYM, I will show how the quantum spectral curve (QSC), a powerful integrability based method solves its spectral problem.

Then, I will show how the boostrability approach allows us to access previously unreachable quantities such as correlation functions at finite coupling —we used this method to compute with very good precision, a non-supersymmetric structure constant for a wide range of the ʻt Hooft coupling in the defect CFT.

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