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't Hooft loops and integrability

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A 't Hooft loop is the simplest disorder operator in the $N=4$ super-Yang-Mills theory exactly S-dual to a Wilson loop. Insertion of a 't Hooft loop defines a defect CFT which is expected to be integrable. I will describe how to compute 1pt functions in this setup by combining S-duality, localization and holography for protected operators and integrability for unprotected.

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