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Integrated correlators and the bootstrap

Thursday 6 June 2024 12:30 (30 minutes)

In this talk, I will show some results obtained from combining the conformal bootstrap for maximally supersymmetric CFTs in three and four dimensions with exact results obtained from supersymmetric localization. The latter take the form of integral constraints on four-point functions of local operators in the CFTs. In N=4 super-Yang-Mills theory, I will present bounds on the low-lying CFT data that depend on the Yang-Mills coupling and that can be compared with integrability, weak coupling expansions, and holographic calculations.

Presenter: PUFU, Silviu S. (Princeton University)