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A more functional bootstrap

Thursday, 12 April 2018 10:00 (30 minutes)

The conformal bootstrap aims to systematically constraint CFTs based on crossing symmetry and unitarity. In this talk I will introduce a new approach to extract information from the crossing symmetry sum rules, based on the construction of linear functionals with certain positivity properties. I show these functionals allow us to derive optimal bounds on CFT data. Furthermore I will argue that special extremal solutions to crossing form a basis for the crossing equation, with the functionals living in the dual space. As an application we reconstruct physics of QFTs in AdS2 from the properties of 1d CFTs.

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