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Rigorous bounds on the analytic S-matrix

Wednesday, 2 June 2021 14:30 (40 minutes)

In this talk I will introduce a complementary approach to the non-perturbative S-matrix Bootstrap based on duality in optimization theory.
In particular, I will focus on the problem of bounding the quartic coupling for gapped theories in 4-dimensions, both from above and below.
The bounds obtained rely solely on proven analyticity properties and the numerical problem can be efficiently solved using SDPB.

Presenter: GUERRIERI, Andrea