

Bootstrapping Boundary QED

Thursday, 22 February 2024 14:30 (1 hour)

There is a graphene-like boundary conformal field theory which consists of charged conformal degrees of freedom confined to a surface interacting with a photon in the bulk. A long introduction will develop several features of this theory: its relation to graphene and three dimensional QED; ways to introduce supersymmetry; its behavior under the action of $SL(2, \mathbb{Z})$. Then I will talk about recent work describing our efforts to subject this theory to the numerical conformal bootstrap.

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