50 + ε Years of Conformal Bootstrap

Contribution ID: 8

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,Z). Then I will talk about recent work describing our efforts to subject this theory to the numerical conformal bootstrap.

Presenter: HERZOG, Christopher (King's College London)