Volker Schomerus (DESY)

Integrability and Bootstrap

The conformal bootstrap programme relies on the expansion of 4-point functions into kinematically determined conformal blocks. I will explain that these blocks can be mapped to eigenfunctions of a 2-particle hyperbolic Calogero-Sutherland Hamiltonian. The observation enables us to exploit the rich mathematical literature on Calogero-Sutherland models in deriving various results for conformal field theory.