

Contribution ID: 27

Type: 20 Min Talk

Relaxation dynamics in Integrable Field Theories

Thursday, 6 July 2023 10:00 (30 minutes)

Out of equilibrium dynamics of integrable systems have been intensively studied in the past 20 years. However, a full characterisation of time evolution of an integrable field theory after a quantum quench is still missing. We investigate many processes occurring during relaxation towards a steady state and describe them in terms of analytical properties of form factors of operators in the post-quench theory. As an example, results for thermal Ising, Sinh-Gordon and Yang-Lee field theories are shown. We extend this approach to non-relativistic theories by mapping them via out-of-equilibrium non-relativistic limit.

Primary author: DI SALVO, Emanuele (Utrecht University) **Presenter:** DI SALVO, Emanuele (Utrecht University)

Track Classification: Participants Talks