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Talk Matt Walters: Thermalization and Chaos in QFT

Wednesday 2 October 2024 10:00 (1 hour)

Thermalization and Chaos in QFT

Despite the many successes of QFT, we still have very few tools for directly computing strongly-coupled dynamics, and even fewer means of studying QFTs at finite temperature. I will discuss a new approach for accomplishing this goal, called conformal truncation, which uses data from conformal field theories to compute observables in more general QFTs. After presenting the general approach, I will discuss its application to 1+1d scalar field theory, in particular the calculation of finite-temperature observables and the signatures of chaotic dynamics at general coupling.