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Computational fluid dynamics and the fRG

Friday, 29 July 2022 11:00 (30 minutes)

The talk reviews the application of computational fluid dynamics techniques to flow equations, explored in a recent series of paper. Hereby, a detailed explanation of the deep connection between RG flows and convection-diffusion equations is given. These properties, as well as the connection to phase transitions, are made explicit at the example of O(N) theories in various variations. Finally, the extension beyond such simple models and truncations of the effective action will be discussed.

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