

Φ^4 Theory as a Neural Network Field Theory

Friday 19 January 2024 08:30 (45 minutes)

In this talk I'll review recent progress in a neural network approach to field theory. Topics include the systematics of interactions and relation to the central limit theorem, a method of obtaining actions from correlators, and engineering actions at infinite width via local operator insertions. This technique is used to obtain Φ^4 theory as a neural network field theory.

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