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Introduction to the Many-body problem

Monday 25 September 2023 09:30 (1h 30m)

1. Introduction to the many-body problem (1.5 hours)
 - 1.1. Tensor Networks
 - 1.1.0 Motivation
 - 1.1.1 Why to use tensor networks
 2. (a) Building block 1.2.0 Vectors matrices tensors and their contractions in Penrose notation 1.2.1 Tensor contractions, vector norms matrix vector multiplication, generalization
3. (a) The idea of data compression 1.3.0 Counting strings of bits 1.3.1 Counting strings of bits with constraints 1.3.2 From strings of bits to probability distributions of classical spins

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