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## Introduction to Tensor Network Methods

*Friday, November 1, 2019 12:00 PM (20 minutes)*

Tensor network methods are a family of variational algorithms used to simulate many body quantum systems in a variety of situations. With some brief motivation from physics, I'll explain why anyone would want to use these methods, why it is that they are so effective for certain classes of problems, and some extensions to other fields like machine learning.

**Presenter:** HYATT, Katharine (CCQ)

**Session Classification:** Dimension Reduction and Factorization Short Talk