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Surrogate models for quantum many-body systems

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Quantum many-body systems, particularly in nuclear physics, present significant computational challenges due to their complex interactions and high-dimensional state spaces. Surrogate models offer a promising solution by providing simplified yet accurate representations of these systems, reducing computational costs and enhancing scalability.

This talk will focus on the development and application of surrogate models specifically for nuclear many-body problems. We will explore various approaches, including machine learning techniques and reduced basis method.

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