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The role of artificial neural networks in quantum many-body physics

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Artificial intelligence plays an increasing role in many situations in our everyday lives. Its immense power finds applications in various fields, recently also including the field of quantum many-body physics. Artificial neural networks have led to improved numerical studies of qubit systems, increasing our understanding of these systems, which build the foundation of quantum computers and quantum simulators. In this talk, I will summarize recent breakthroughs achieved with artificial neural networks in quantum physics and provide an outlook of what to expect in the near future.

Keyword-1

quantum

Keyword-2

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Keyword-3

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