

Phase transition of non-Hermitian systems using variational quantum techniques

Monday 24 March 2025 12:25 (20 minutes)

The motivation for studying non-Hermitian systems and the role of $\{PT\}$ -symmetry is discussed. We investigate the use of a quantum algorithm to find the eigenvalues and eigenvectors of non-Hermitian Hamiltonians, with applications to quantum phase transitions. We use a recently proposed variational algorithm.

Author: HANCOCK, James (University of Plymouth)

Presenter: HANCOCK, James (University of Plymouth)

Session Classification: Invited Speakers and Contributions