24th Australian Institute of Physics Congress



Contribution ID: 418 Type: Talk (preferred)

Ground-state energy estimation of molecular systems on physical quantum computers

Tuesday 13 December 2022 12:15 (15 minutes)

We discuss the challenges that must be overcome for variational quantum computing to be able to solve chemical systems of more than a few electrons in the context of the variational quantum eigensolver and the quantum computed moments method.

Primary author: JONES, Michael

Co-authors: HILL, Charles (The University of Melbourne); VALLURY, Harish; HOLLENBERG, Lloyd (The

University of Melbourne)

Presenter: JONES, Michael

Session Classification: AIP: Quantum Science and Technology

Track Classification: AIP Congress: AIP: Quantum Science and Technology