



Contribution ID: 753

Type: **Talk (preferred)**

Compression of QFT States Using Wavelets

Wednesday 14 December 2022 11:30 (15 minutes)

We apply the wavelet transform to generate compressed representations of ground states of QFTs and demonstrate applications such as identification of quantum phase transitions via fidelity overlap and approximation of the holographic entanglement of purification.

Author: GEORGE, Dan (Macquarie University)

Co-authors: SANDERS, Yuval (University of Technology Sydney); Dr BAGHERIMEHRAB, Mohsen (University of Toronto); SANDERS, Barry (University of Calgary); BRENNEN, Gavin (Macquarie University)

Presenter: GEORGE, Dan (Macquarie University)

Session Classification: AIP: Quantum Science and Technology

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