## 24th Australian Institute of Physics Congress



Contribution ID: 330 Type: Talk (preferred)

## Point Exchange Invariant and Automatically Generated Feature Maps in Quantum Support Vector Machines for Practical Applications

Tuesday 13 December 2022 14:45 (15 minutes)

Inspired by 3D imagining problems we investigate methods of quantum encodings that are invariant to permutations of points in the original input for collections of 3D points (point cloud) data, within the context of a particle physics application.

Author: HEREDGE, Jamie

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

bourne); SEVIOR, Martin (The University of Melbourne)

Presenter: HEREDGE, Jamie

Session Classification: AIP: Quantum Science and Technology

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