Seminar Talk

Gorka Munoz-Gil, University of Innsbruck
"Machine learning in physics: where, how and why?"

Abstract

This year's Nobel Prizes in Physics and Chemistry have brought renewed attention to the potential of machine learning in research. In this talk, I will provide an overview of how these techniques have been useful in our work and try to spark ideas for how they might benefit your research. I will highlight different stages of the scientific pipeline in which such algorithms have proven valuable, illustrated by our results from recent years. The latter range from generating new quantum architectures tailored to the user specifications, to improving the characterization of biophysical systems or even (re)discovering new physical theories directly from data.

Wednesday | 27.11.2024 | 5pm

SR 1 | ICT-Building