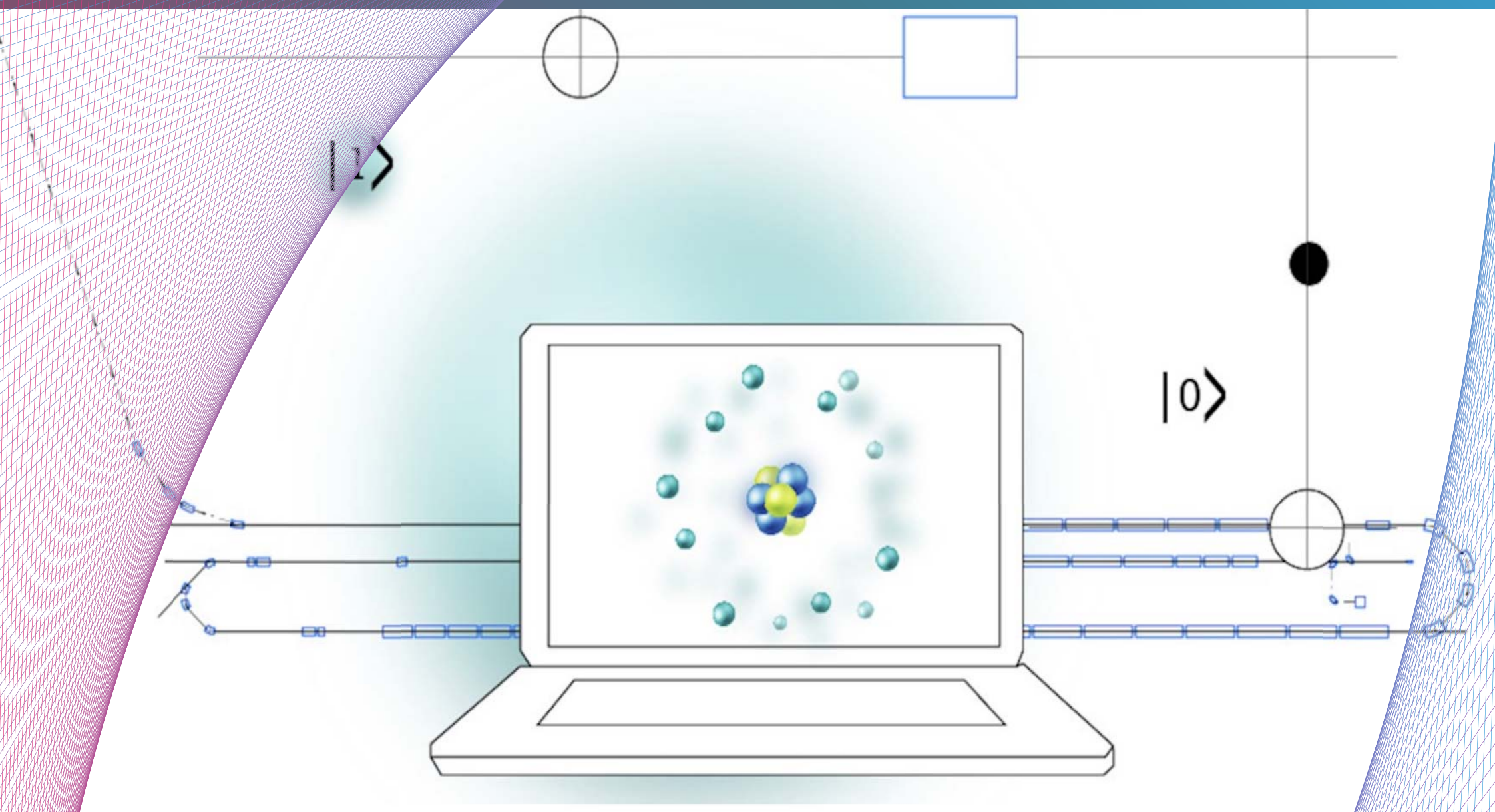
PHYSICS COLLOQUIA 2021/2022



DEC 03 2021

Morten Hjorth-Jensen | Michigan State Univiversity (USA) & University of Oslo (NOR)

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING IN NUCLEAR PHYSICS.

ore 14:30 | **AULA A** | DIPARTIMENTO DI FISICA

The main aim is to give you a short and pedestrian introduction to how we can use Machine Learning methods to solve quantum mechanical many-body problems. And why this could be of interest.
I will focus on the link between variational methods (Variational Monte Carlo as an example) and Deep Learning methods (neural networks, Boltzmann Machines and other) and how they can be used to solve many-body problems, as well as to give a survey on how Machine Learning can be used in Nuclear Physics analysis and discoveries.

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