

Tuesday, December 10th 2024 9:30 - 11:00

Aula Sironi (08), Building U4, University of Milano-Bicocca

Celebrating The 2024 Nobel Prize in Physics 2024 to John J. Hopfield and Geoffrey E. Hinton

for their discoveries that made machine learning possible

Scientific Talks between physics professors and students

"Is the Neuron a Particle?

What Artificial Intelligence Owes to Physics"



AI-generated image

Program

- 9:30 Welcome
- 9:30 Isabella Castiglioni: *"Machine learning for predictive physics-based diagnosis and prognosis in vivo"*
- 9:45 Pietro Faccioli: *"Neural networks as interacting many-body systems"*
- 10:00 Laura Sironi: *"When physics and AI meet pathology"*
- 10:15 Gabriele Canesi: *"Empowering Molecular Dynamics with a Hopfield network, to explore the RNA conformational space"*
- 10:30 Marco Picione: *"Reinforcement learning application in a multi-objective particle swarm optimizer".*
- 10:45 Alberto Mosconi: *"Semantic segmentation of clinically significant cancer on magnetic resonance imaging: an Artificial Intelligence model cascade"*

Organized by Isabella Castiglioni