

Session Program

24-27 Nov 2025

2nd AI-INFN Advanced Hackathon

Seminars for exercises

Collegio Borromeo, Pavia
Piazza del Collegio Borromeo, 9, 27100 Pavia PV

Tuesday 25 November

08:30

Seminars for exercises: Seminars for exercises

Session | **Location:** Collegio Borromeo, Pavia, Piazza del Collegio Borromeo, 9, 27100 Pavia PV

08:30–09:15

Physics Informed Neural Networks - An introduction

Speaker

Alessandro Bombini

09:55

09:20–09:50

PINN for dosimetry in Medical Physics

Speakers

Francesco Vaselli, Mattia Romeo

11:00

Seminars for exercises

Session | **Location:** Collegio Borromeo, Pavia, Piazza del Collegio Borromeo, 9, 27100 Pavia PV

11:00–11:45

Introduction to Quantum Computing and Machine Learning

Speaker

Lorenzo Sestini

12:25

11:50–12:20

Introduction to QUBO

Speaker

Laura Cappelli

Wednesday 26 November

08:30

Seminars for exercises: Seminars for exercises

Session | **Location:** Collegio Borromeo, Pavia, Piazza del Collegio Borromeo, 9, 27100 Pavia PV

08:30–09:00

Introduction to Graph Neural Networks

Speaker

Lorenzo Arsini

09:00–09:30

GNN with Attention for Jet Reconstruction in High Energy Physics

Speaker

Stefano Giagu

09:35

11:00

Seminars for exercises: Seminars for exercises

Session | **Location:** Collegio Borromeo, Pavia, Piazza del Collegio Borromeo, 9, 27100 Pavia PV

11:00–11:45

FPGA and Machine Learning: an introduction

Speaker

Giulio Bianchini

11:50–12:15

Introduction to data compression for Gravitational Waves

Speakers

Luca Rei, Mirko Corosu

12:20–12:40

The FPGA cluster in Milano Bicocca

Speakers

Francesco Brivio, Simone Gennai, Simone Gennai

12:40