

ALPACA: modern ALgorithms in machine learning and data analysis: from medical Physics to research with ACcelerAtors and in underground laboratories

Trento, 20-24 November, 2023

Main topics

- AI design of experiments
- Differentiable programming
- Generative Models at LHC
- Machine Learning for High Energy Physics
- Bayesian Analysis
- AI in medicine and biological systems
- Hypernuclear physics with machine learning
- Anomaly detection for Dark Matter

Organizers

- Fabrizio **Napolitano** (INFN - Laboratori Nazionali di Frascati, Italy)
- Raffaele **Del Grande** (Technical University Munich, Germany)
- Fabrizio **Grosa** (CERN, Switzerland)
- Magdalena **Skurzok** (Jagiellonian University Kraków, Poland)

Key Speakers

- Fabio **Catalano** (CERN)
- Tommaso **Dorigo** (INFN Padova)
- Take **Saito** (RIKEN)
- Oliver **Schultz** (MPI Munich)
- Pietro **Vischia** (Universidad de Oviedo & ICTEA)
- Lucio **Anderlini** (INFN Firenze)
- Guido **Sanguinetti** (SISSA & University of Edinburgh)

Director of ECT*: Professor Gert Aarts

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