



## Machine Learning for Physics

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# Automatic Differentiation and Supervised Learning (lecture)

*Thursday 12 March 2026 10:30 (1h 30m)*

This lecture will focus on supervised learning, a setting where the training data set is “labelled”, that is the target quantity of learning is known. Automatic Differentiation, the technique that powers up modern machine learning frameworks will then be explained in detail, together with its connection to differentiable programming.

**Presenter:** Prof. VISCHIA, Pietro (Universidad de Oviedo and Instituto de Ciencias y Tecnologías Espaciales de Asturias (ICTEA))