April 2nd, 2025 12:00

Aula Magna "V. Ricevuto" Polo Papardo / UniME

Co-organized by Depts. ChiBioFarAm and MIFT, Doctorate ACCESS and CASPE/INSTM Reference Centre

Catalysis: Chemistry or Physics?

Prof. Michele Parrinello

Molecular simulations at the interface - IIT Genova

An exciting journey into how state-of-the-art simulations based on machine learning can provide novel insights into the mechanisms and understanding of catalysis.

Michele Parrinello has been a full Professor of Computational Science at ETH Zurich since July 2001 and is now with the Italian Institute of Technology in Genoa, Italy, as a Senior Researcher. Born in Messina, Italy, in 1945, he earned his degree in physics in 1968 from the University of Bologna, Italy. Parrinello's scientific interests are strongly interdisciplinary, encompassing the study of complex chemical reactions, hydrogen-bonded systems, catalysis, and materials science. Together with Roberto Car, he introduced the ab--initio molecular dynamics method, the beginning of a new field and has dramatically influenced the field of electronic structure calculations for solids, liquids and molecules. For his research, he has been awarded by numerous prizes.