

ESI MEDAL 2025 • AWARD CEREMONY



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NOVEMBER 7, 2025
AT THE ESI, BOLTZMANN LECTURE HALL



Award Ceremony on November 7, 2025 at the ESI, Boltzmann Lecture Hall

The Medal of the Erwin Schrödinger International Institute for Mathematics and Physics, or ESI Medal, awarded in 2020 for the first time, has been created to recognize outstanding achievements in any area of mathematics or physics, including contributions at the interface of the two fields.

Prof. Michele Parrinello, Professor Emeritus at the Eidgenössische Technische Hochschule Zürich and Senior Researcher at the Istituto Italiano di Tecnologia in Genova, is honored for his seminal contributions to computational science, particularly through the development of groundbreaking algorithms that have opened new frontiers in soft matter, biological, and condensed matter physics, as well as for applying these methods to solve important open problems. Among his most recent achievements are the advancement of metadynamics sampling techniques, which have revolutionized the study of complex free-energy landscapes—including those associated with protein conformational changes—and the pioneering integration of machine learning with molecular dynamics, a transformative leap that is redefining the frontiers of numerical simulations. He is also recognized for his efforts in promoting transparency and reproducibility in computational science.

14:00 Welcome

Prof. Christoph Dellago, *ESI Director, University of Vienna*

14:15 Auxiliary field quantum Monte-Carlo: recent advances and applications to solids

Prof. Georg Kresse, *University of Vienna*

15:00 Predictive simulations of weakly bound systems

Prof. Mariana Rossi, *MPI for the Structures and Dynamics of Matter, Hamburg*

15:45 Break

16:15 Laudatio

Prof. Giuseppe Foffi, *University of Paris-Saclay*

16:45 Award ESI Medal

17:00 Award Lecture

Prof. Michele Parrinello, *ETH Zürich and Istituto Italiano di Tecnologia in Genova*

17:45 Closing, followed by a reception

Prof. Christoph Dellago, *ESI Director, University of Vienna*

Erwin Schrödinger International Institute
for Mathematics and Physics

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