

NOBEL PRIZE FOR THE PHYSICS OF COMPLEX SYSTEMS

NOBEL PRIZE FOR
PHYSICS 2021
TO GIORGIO PARISI

DECEMBER 20th 2021
14.30

AULA ROSTAGNI
PHYSICS AND ASTRONOMY
DEPARTMENT



III.Nicklas Elmehed Nobel Prize Outreach

PROGRAM

14.30 Flavio Seno (Director DFA), Welcome followed by the Nobel Prize Award Ceremony video
14.40 Attilio Stella, Spin glasses: the complexity of disordered systems
15:00 Amos Maritan, Complex systems and emergent phenomena
15:20 Giancarlo Benettin, The Fermi-Pasta-Ulam problem: an innovative view
15:40 Q&A and discussion
16:00 Concluding remarks

This year's Nobel Prize for Physics was awarded to Prof. Giorgio Parisi from University "La Sapienza" for "the discovery of the interplay of disorder and fluctuations in physical systems from atomic to planetary scales". These investigations have been of fundamental relevance in the context of the statistical mechanics of complex systems, dealing with a large variety of different phenomena, from atmospheric turbulences to active matter up to phase transitions in amorphous materials. Applications are to be found at all possible scales, from molecules to the Cosmos, involving the largest majority of the physics phenomena we are familiar with. To celebrate Giorgio Parisi on the occasion of the Nobel Prize award, a series of speeches will illustrate his contributions in this vibrant research field, where Italian physicists play a relevant role. The event is addressed to non specialists, with special attention to students.

Registration compulsory for attendance in person: <https://indico.dfa.unipd.it/event/291/>



Dipartimento
di Fisica
e Astronomia
Galileo Galilei

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