UNIVERSITÀ DI PAVIA
Dipartimento di Fisica
"Alessandro Volta"

Dottorato di Ricerca in Fisica

COLLOQUIA DI DOTTORATO, A.A. 2026/2027

A101, Dipartimento di Fisica

Giovedi 26 novembre 2026 ore 16:00

(Paleo)climate Change: Climate equilibrium, feedbacks, and future trajectories

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The Earth's climate is governed by the balance between incoming solar radiation and outgoing thermal radiation, modulated by atmospheric greenhouse gases.
Perturbations to this balance explain both the transitions between glacial and interglacial states that have characterised the past million years and the global warming observed over the last two centuries. Climate feedback mechanisms play a crucial role in these processes, amplifying and maintaining climatic changes.
In this seminar, the fundamental concepts needed to understand transitions between equilibrium states of the climate system will be introduced. Then, these concepts will be applied to illustrate an example from the (relatively) recent past and discuss possible trajectories of future climate change.

The seminar is in presence up to the maximum occupancy of the lecture hall.