



The Abdus Salam
International Centre for Theoretical Physics



**Advanced Workshop on
"Anderson Localization, Nonlinearity and
Turbulence: A Cross-Fertilization"**

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TITLE:

"Chaos in space? The case of glasses."

ABSTRACT:

Years ago Ruelle suggested that, just as trajectories of a dynamical system may be stationary, periodic or chaotic; the ground state of a system may be uniform or periodic (crystalline), but also chaotic. We are beginning to understand better this analogy between amorphous systems and chaos, with new elements coming from recent developments in the theory of glasses providing a wider perspective.