

Plenary talks (PV)

Prize Talk PV X Tue 14:00 HSZ 03
Theoretical progresses in off-equilibrium behavior — ●GIORGIO
PARISI — Dipartimento di Fisica, Università di Roma La Sapienza,
Rome, Italy — Laureate of the Max-Planck-Medal

Many systems approach equilibrium very slowly: the equilibration time becomes macroscopic, and sometimes it is so large that it cannot be measured.

Strong progresses have recently done in understanding the collective

phenomena that are at the basis of their behavior.
This talk will contain:
a) A mini introduction to structural glasses and spin glasses.
b) A theoretical framework for interpreting these phenomena.
c) Aging in structural glasses and spin glasses (theoretical predictions, experimental and numerical results).
d) Generalized fluctuation dissipation relations and the definition of a scale dependent temperature.