



SACLAY



DIRECTION DES SCIENCES DE LA MATIERE,
DEPARTEMENT DE RECHERCHE SUR L'ETAT CONDENSE,
LES ATOMES ET LES MOLECULES,
SERVICE DE PHYSIQUE ET DE CHIMIE DES SURFACES ET DES INTERFACES

SEMINAIRE *

Mercredi 31 octobre 2007 à 11h00

Bâtiment 466, salle 111 - CEA Saclay, 91191, Gif sur Yvette

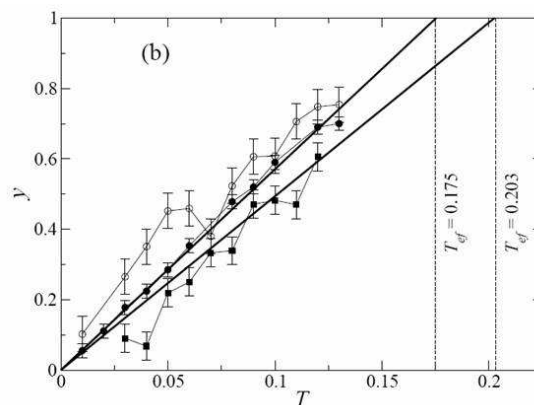
Out-of-equilibrium dynamics of elastic manifolds and the vortex glass

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Résumé:

In general, glassy systems are out-of-equilibrium systems characterized by a very slow dynamics presenting characteristics such as aging and non-exponential relaxation. In the present talk I shall discuss some glassy properties of elastic lines evolving in a disordered environment, mainly motivated by the physical properties of vortex matter in high temperature superconductors. Searching for analogies with other glassy systems, like structural or spin glasses, the analysis of aging properties and the characteristics of the fluctuation-dissipation ratio will be presented. Finally, the relation between these results and experiments on vortex matter will be discussed.



*** SERA PRECEDE D'UNE PAUSE-CAFE A PARTIR DE 10H30**