DIPARTIMENTO DI FISICA "E.Fermi"
UNIVERSITÀ DI PISA
CORSO DI DOTTORATO IN FISICA
VIA BUONARROTI,2 - Edificio B-C
56127 PISA - ITALY

CORSO DI DOTTORATO IN FISICA

Giovedi 16 Giugno 2005
ore 15:30

Dipartimento di Fisica
Via Buonarroti, 2
Sala Seminari (248) I piano - Ed. C

Prof. Gernot Akemann

Dept. of Math. Sciences - Brunel University - U.K.

terrà un seminario su:

"Chemical potential in QCD -like theories versus complex Matrix Models"

Abstract: In the low energy phase QCD lattice simulations encounter serious problems when introducing a chemical potential, due to the complex phase of the action. Random Matrix Models with complex eigenvalues provide an efficient tool to describe the lowest Dirac operator eigenvalues.
Analytical predictions are presented including dynamical fermions. These are sucessfully compared to Lattice simulations without sign problem in two and three colour QCD.

K.Konishi