Instituto de Estructura de la Materia

Ciclo de Seminarios 2008-2009

Seminario del Departamento de Física Nuclear y Física Estadística

Dr. Pavel Cejnar

Institute of Particles & Nuclear Physics

Faculty of Mathematics & Physics Charles University,

Prague, Czech Republic

Chaos in the collective dynamics of atomic nuclei

Simple models of nuclear collective motions exhibit striking complexity of behaviours, which can be classified in terms of classical and quantum chaos. The correspondence between classical and quantum properties of these models will be analysed using two alternative approaches: the well known Bohigas conjecture on level statistics and a less known Peres method of spectral lattices. While both approaches yield compatible results, the latter one discloses additional information and provides an interesting insight into the global features of the system.

Miércoles, 18 de Febrero de 2009, 12:00 horas.

Sala de Conferencias. Centro de Física "Miguel A. Catalán".
Serrano, 121. 28006 Madrid.