PAVEL CEJNAR

(ÚČJF MFF UK, PRAHA)

Chaos in the collective dynamics of atomic nuclei

Abstrakt

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.

Seminář se koná v pátek 27. 3. 2009 v 10:30 hod. v zasedací místnosti ÚJF Řež

A. Cieplý/otf