

Mean field theories, recent developments

mercredi 10 octobre 2012 09:30 (45 minutes)

Two items will be addressed in this talk, the first concern developments to compute the overlaps required for beyond mean field theories of the HFB type. They are based on the powerful concept of the Pfaffian of a skew symmetric matrix and are specially useful for odd-A systems where time reversal invariance is broken.

The second concerns a recently proposed energy density functional (denoted BCPM) inspired by microscopic inputs. Its form, fitting strategies and results in finite nuclei will be discussed.

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Classification de Session: Recent progress in shell model and other approaches to nuclear structure

Classification de thématique: Recent progress in the nuclear shell model and other approaches to nuclear structure