

The microscopic origin of the Interacting Boson Model

Thursday 14 July 2022 12:55 (20 minutes)

A new microscopic interpretation of the s and d bosons of the Interacting Boson Model shall be suggested. The s and d bosons will be symmetric pairs of harmonic oscillator quanta deriving from the occupancy of the valence Shell Model orbitals by the valence nucleons. It will be discussed that if such is the case, then the SU(3) limit of the Interacting Boson Model coincides the Elliott SU(3) symmetry.

Presenter: MARTINOU, Andriana (NCSR Demokritos)

Session Classification: Novel aspects and signatures of QPTs in nuclei

Track Classification: Novel aspects and signatures of QPTs in nuclei