

Collectivity of PYGMY dipole resonance and its contribution to nuclear polarizability

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Pygmy Dipole Resonance in nuclear systems, related to the dipole response around neutron separation energy, was under a close scrutiny of several experimental and theoretical investigations during the last decade. Critical questions regard its nature, centroid position and width, the evolution of its features with the number of neutrons in excess, its role in the astrophysical context. We introduce some microscopic approaches able to predict this state and its collective features. We also discuss the role of the symmetry energy on the isoscalar-like nature of this mode.

Authors: CIPU, Cosmin (University of Bucharest); Prof. BARAN, Virgil (University of Bucharest)

Presenter: Prof. BARAN, Virgil (University of Bucharest)

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