

Shell Model as a Unified View of Nuclear Structure

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Institut Pluridisciplinaire Hubert Curien

Programme Scientifique

*The state-of-the-art of large scale Shell Model

*Ab-initio approaches to nuclear structure

*Effective interactions and operators

*Nuclear structure at driplines

*Astrophysical applications

*Neutrinoless double-beta decay and other rare processes

Ab-initio approaches to nuclear structure

Nuclear structure at the proton dripline

Shell evolution in the neutron rich nuclei I

Weakly-bound quantum systems and reactions

Proton rich nuclei in the vicinity of 100Sn

Shell evolution in the neutron rich nuclei II

Recent progress in the nuclear shell model and other approaches to nuclear structure

Beta-beta decays and other rare processes

