Nuclear and Particle Physics

Module No.: MN-P-SP-Nuc, MN-P-PN-Nuc, MN-P-WaMa

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Course: Selected Problems in Nuclear Structure Physics

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Requirements for participation:
Basic Knowledge in Nuclear Physics

Type of module examinations:
One oral examination at the end of the module

Duration of the course:
1 semester

Aims of the course:
Presentation of current research topics in Nuclear Structure Physics.

Contents of the course:
- Experimental techniques, facilities and instrumentation
- Modification of shell structures
- Halos and Clusters
- Collective response of nuclei
- Ground-state properties
- Nuclear Structure and the synthesis of the elements

Recommended literature:
The course is based on up-to-date publications in various journals.