Nuclear and Particle Physics

Module No.: MN-P-SP-Nuc, MN-P-Nuc, MN-P-WaMa Version: 12.02.2014 AZ

Course: Selected Problems in Nuclear Structure Physics

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Category	Туре	Language	Teaching Hours	СР	Semester
Specialized Course	Lecture	English	2	3	SuSe

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.