

Module description

| Module title | | | | | Abbreviation | |
|---|-----------------|-------------------------|--|--|---|--|
| Nuclear and Elementary Particle Physics | | | | | 11-KET-092-m01 | |
| Module coordinator | | | | Module offered by | | |
| Managing Director of the Institute of Applied Physics | | | | Faculty of Physics and Astronomy | | |
| ECTS | Meth | od of grading | Only after succ. cor | nly after succ. compl. of module(s) | | |
| 4 | nume | rical grade | | | | |
| Duration Module level | | Module level | Other prerequisites | Other prerequisites | | |
| 1 semester | | undergraduate | sessment. The lectuat the beginning of sidered a declaration dents have obtained the course of the sessment into effected to assessment at a later | Certain prerequisites must be met to qualify for admission to assessment. The lecturer will inform students about the respective details at the beginning of the course. Registration for the course will be considered a declaration of will to seek admission to assessment. If students have obtained the qualification for admission to assessment over the course of the semester, the lecturer will put their registration for assessment into effect. Students who meet all prerequisites will be admitted to assessment in the current or in the subsequent semester. For assessment at a later date, students will have to obtain the qualification for admission to assessment anew. | | |
| Conten | ts | | | | | |
| Nuclea ticles. S | r mode Symme | els. Radioactive decay. | . Structure of nuclei. Nu | clear energy. Quantu | n. Scattering and spectroscopy. m theoretical description of par- g interaction, quarks. Standard | |

Intended learning outcomes

The students understand the basic connections between fundamental Nuclear and Elementary Particle Physics. They have an overview of the experimental observations of Particle Physics and the theoretical models which describe them.

 $\pmb{\textbf{Courses}} \text{ (type, number of weekly contact hours, language} - \text{if other than German)}$

V + Ü (no information on SWS (weekly contact hours) and course language available)

Method of assessment (type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus)

written examination (approx. 120 minutes, for modules with less than 4 ECTS credits approx. 90 minutes; unless otherwise specified)

Allocation of places

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Additional information

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Workload

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Teaching cycle

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Referred to in LPO I (examination regulations for teaching-degree programmes)

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Module appears in

Bachelor' degree (1 major) Physics (2010)

Bachelor' degree (1 major) Mathematical Physics (2009)

Bachelor's degree (1 major, 1 minor) Physics (Minor, 2010)



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