Groundbreaking experiments in nuclear physics (E) - ExpNuclPhys

Course	**Groundbreaking experiments in nuclear physics (E)**
Course No.	ExpNuclPhys

Category	Type	Language	Teaching hours	CP	Semester
Elective	Lecture	English	2	3	ST

Requirements:

Preparation: Basic knowledge in Nuclear Physics

Form of Testing and Examination: Part of courses for area of specialisation Nuclear and Particle Physics, separate oral examination is possible exceptionally.

Length of Course: 1 semester

Aims of the Course: Study of original publications of fundamental experiments in nuclear physics. The students should participate actively in the course.

Contents of the Course:

- Discovery of radioactivity
- Rutherford and his many discoveries using alpha sources
- The discovery of the neutron and deuteron
- Determination of magnetic moments
- Hofstadters electron scattering experiments
- The use of cosmic rays to discover mesons
- Fermi work in neutron physics
- Properties of neutrinos
- Mößbauereffekt

Recommended Literature: Will be distributed during the course.

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