Level: master

Course title: Fundamental interactions

Status: obligatory

ECTS: 8

Requirements: Particle physics

Learning objectives

To introduce the students to details of the fundamental interactions in nature.

Learning outcomes

The overall competence is acquiring knowledge in the field of fundamental interactions.

Syllabus

Theoretical instruction

Salam-Weinberg theory of electroweak interaction. Quantum chromodynamics, gravitational interaction. Supersymmetry theory. SU (5) theory of grand unification. Feynman diagrams. Strings.

Practical instruction: Exercises.

Weekly teaching load				Other:
Lectures: 3	Exercises: 2	Other forms of teaching: 1	Student research:	