



FSI3340 Supersymmetry 7.5 credits

Supersymmetri

This is a translation of the Swedish, legally binding, course syllabus.

If the course is discontinued, students may request to be examined during the following two academic years

Establishment

Course syllabus for FSI3340 valid from Spring 2009

Grading scale

Education cycle

Third cycle

Specific prerequisites

Language of instruction

The language of instruction is specified in the course offering information in the course catalogue.

Intended learning outcomes

Course contents

The contents of the reading course in supersymmetry are: Minimal Supersymmetric Standard Model (MSSM), supersymmetry algebra and supermultiplets, the Wess-Zumino model, cancellations of quadratic divergences, SUSY breaking, and sparticle phenomenology.

Course literature

- **I. Aitchison, Supersymmetry in Particle Physics, Cambridge (2007)**
- **H. Baer and X. Tata, Weak Scale Supersymmetry: From Superfields to Scattering Events, Cambridge (2006)**

Examination

Based on recommendation from KTH's coordinator for disabilities, the examiner will decide how to adapt an examination for students with documented disability.

The examiner may apply another examination format when re-examining individual students.

Other requirements for final grade

Hand in assignments and/or an oral exam.

Ethical approach

- All members of a group are responsible for the group's work.
- In any assessment, every student shall honestly disclose any help received and sources used.
- In an oral assessment, every student shall be able to present and answer questions about the entire assignment and solution.