



FSI3230 Renormalization Group Theory in Statistical Physics 15.0 credits

Renormeringsgruppsteori i statistisk fysik

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 FSI3230 valid from Spring 2009

Grading scale

G

Education cycle

Third cycle

Language of instruction

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

Intended learning outcomes

Course contents

The course treats the renormalization group approach to phase transitions and critical phenomena, and gives the theoretical basis for scaling properties at critical points and calculation approaches to phase transitions. The detailed course content is planned individually with the examiner.

Specific prerequisites

Course literature

The detailed course literature is planned individually with the examiner.

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

The course is completed by reading suitable literature and doing a set of homework exercises. There is either a written or an oral examination.

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.