



FSF3600 Algebraic Spaces 7.5 credits

Algebraiska rum

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 FSF3600 valid from Spring 2019

Grading scale

G

Education cycle

Third cycle

Specific prerequisites

A Master degree including at least 30 university credits (hp) in Mathematics.

The student should have knowledge of algebraic geometry corresponding course FSF3605 Algebraic Geometry II.

Language of instruction

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

Intended learning outcomes

After the course, the student should have sufficient depth in the field to be able to read research articles in algebraic spaces.

Course contents

- Algebraic spaces,
- Etale topology,
- Descent,
- Group quotients,
- Criteria for representability.

Disposition

Lectures and seminars.

Course literature

Donald Knutson, "Algebraic Spaces", Lecture Notes in Mathematics 203, Springer.

Bosch, Lütkebohmert, Raynaud, "Néron Models", Ergebnisse 21, Springer.

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Examination

- SEM1 - Seminars, 7.5 credits, grading scale: P, F

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.

Oral presentations.

Other requirements for final grade

Accepted oral presentations.

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.