

Computeralgebra (326.105 & 326.031 & 326.112)

Wintersemester 2019/2020

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Time and room lecture: Tue 16:30 – 18:00, HS 6

Time and room exercises: Tue 15:30 – 16:15, T405 & HS 6

first lecture and exercise: October 8

Lecture: A theoretical and practical introduction into the area of computer algebra will be presented. In particular, we deal with the constructive symbolic solution of systems of algebraic (i.e. polynomial) equations, and with factorization of polynomials.

The course will follow the appropriate chapters in

F. Winkler: *Polynomial Algorithms in Computer Algebra*,
Springer-Verlag Wien New York, 1996 (ISBN 3-211-82759-5)

Participants are expected to be acquainted with the basic notions in algebra and algorithm theory.

Exercises: The exercise part consists of homework exercises and a project.

Webpage: www.risc.uni-linz.ac.at/education/courses/ws2019/ca