

# The Oberwolfach Meeting on Complexity Theory

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## Abstract

Computational complexity (a.k.a complexity theory) is a central field of computer science with a remarkable list of celebrated achievements as well as a vibrant research activity. The field is concerned with the study of the *intrinsic complexity* of computational tasks, and this study tends to *aim at generality*. It focuses on natural computational resources, and considers the effect of limiting these resources on the class of problems that can be solved. Computational complexity is related and has cross-interaction with other areas of mathematics such as number theory, algebra, combinatorics, coding theory, and optimization. The workshop focuses on recent developments in various sub-areas including arithmetic complexity, Boolean complexity, communication complexity, cryptography, randomness extraction, probabilistic proof systems, and pseudorandomness.

**Area classification:** MSC number 68Q (*Theory of Computing*), IMU number 15 (*Mathematical Aspects of Computer Science*).