

Abstract for the Complexity Theory Meeting (November 2015)

Peter Bürgisser
TU Berlin, Germany

Oded Goldreich
Weizmann, Israel

Madhu Sudan
MIT, USA

Salil Vadhan
Harvard, USA

November 7, 2014

Abstract

Computational Complexity Theory is the mathematical study of the intrinsic power and limitations of computational resources like time, space, or randomness. The currently proposed workshop is focused on recent developments in various sub-areas including arithmetic complexity, Boolean complexity, communication complexity, cryptography, probabilistic proof systems, and pseudorandomness. Many of the developments are related to diverse mathematical fields such as algebraic geometry, combinatorial number theory, probability theory, representation theory, and the theory of error-correcting codes.

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