universität wien
Fakultät für Mathematik

Berufungsvorträge
„Mathematische Logik mit Berücksichtigung der Grundlagen der Informatik“

Die Berufungsvorträge schließen folgende Punkte mit ein:

Didaktischer Vortrag (25 Minuten)
Fragen/Pause (10 Minuten)
Wissenschaftlicher Vortrag (45 Minuten)
Fragen/Pause (15 Minuten)
Kommissionelles Hearing -
(Dekanatsbesprechungszimmer, 11. Stock)

Montag, 22. Oktober 2018, Hörsaal 11

Prof. Christian Rosendal
(University of Illinois at Chicago)

14:30 Uhr: Didaktischer Vortrag
“Regular languages and finite automata”

15:05 Uhr: Wissenschaftlicher Vortrag
“Applications of mathematical logic to functional analysis and transformation groups”

Many outstanding theorems of mathematical logic have been impossibility results showing that certain procedures are impossible or that various questions cannot be answered. Famous instances of this include Godel's incompleteness theorem, Church and Turing's solution to the Entscheidungsproblem, Novikov and Boone's solution to the word problem and the many instances of independence established by the method of forcing.
In this talk, we will instead focus on different positive results, primarily in analysis and the study of topological groups, that can be obtained using methods and ideas from mathematical logic and, in particular, descriptive set theory.