



universität
wien

FAKULTÄT FÜR MATHEMATIK
Dekan Univ.–Prof. Dr. Harald Rindler

Einladung zur öffentlichen Defensio von

Mag. Stefan Hoffelner

Thema der Dissertation:

Projective Wellorders and the Nonstationary Ideal

Abstract:

Under the assumption of the existence of $M_1^\#$ we show that for any stationary, co-stationary A there exists a model of ZFC in which the restricted nonstationary ideal $NS_{\omega_1} \upharpoonright A$ is \aleph_2 -saturated while the full nonstationary ideal is Δ_1 -definable with K_{ω_1} as a parameter. Further it is proved, assuming the existence of $M_1^\#$, that there is a model of ZFC in which the nonstationary ideal is \aleph_2 -saturated and its reals admit a lightface Δ_4^1 -wellorder. This result is optimal in the presence of a measurable cardinal.

Prüfungssenat:

Univ.-Prof. Dr. Josef Hofbauer (Vorsitz)
(Universität Wien)

o. Univ.-Prof. Sy Friedman, Ph.D.
(Universität Wien)

ao. Univ.-Prof. DI Dr. techn. Martin Goldstern
(TU Wien)

Assoz. Prof. Benjamin Miller, Ph.D.
(Universität Wien)

Zeit: Freitag, 9. September 2016, 11:00 Uhr

Ort: Seminarraum des KGRC, Josephinum, Währinger Straße 25