



universität
wien

FAKULTÄT FÜR MATHEMATIK
Dekan Univ.-Prof. Dr. Radu Ioan Boț

Einladung zur öffentlichen Defensio

Marlene KOELBING

Thema der Dissertation

Special Aronszajn trees and Kurepa trees

Abstract:

My thesis is about special Aronszajn trees and Kurepa trees. First, I show that it follows from the existence of a supercompact cardinal and an inaccessible cardinal above that it is consistent that all \aleph_2 -Aronszajn trees are special, there are such, and there is no \aleph_1 -Kurepa tree and no \aleph_2 -Kurepa tree.

Then I show that, assuming ω many supercompact cardinals, it is consistent that for all $0 < n < \omega$, all \aleph_n -Aronszajn trees are special and there exist such, and there are no \aleph_n -Kurepa trees.

Finally, I extend this result to a global version about all Aronszajn trees on successors of regular cardinals and all Kurepa trees on regular cardinals, using a proper class of supercompact cardinals.

Prüfungssenat

Univ.-Prof. Mag. Dr. Andreas Cap
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(Universität Wien)

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Prof. Dr. David Asperó
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Zeit und Ort

Freitag, 28. Juni 2024, 17:30 Uhr

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