



universität
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FAKULTÄT FÜR MATHEMATIK

Dekan Univ.-Prof. Dr. Radu Ioan Bot

Einladung zur öffentlichen Defensio

Lukas Schembecker

Thema der Dissertation

**Forcing combinatorics, compact partitions,
cofinality groups and Van Douwen families**

Abstract: In my defense I will present various results in combinatorial set theory constituting my doctoral thesis.

In particular, I will talk about applications of forcing to the study of partitions of Baire space into compact sets, cofinality groups and Van Douwen families as well as their corresponding cardinal characteristics and spectra.

I will begin my presentation with a general introduction to the area of combinatorial set theory and briefly sketch the idea of the method of forcing.

Prüfungssenat

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

Assoz. Prof. Vera Fischer, Privatdoz. PhD
(Universität Wien)

Prof. Dr. Justin Moore
(Cornell University)

Prof. Dr. Alan Dow
(UNC Charlotte)

Zeit und Ort

Donnerstag, 14.03.2024, 17:00 Uhr

[https://univienne.zoom.us/j/69735869687?](https://univienne.zoom.us/j/69735869687?pwd=SHRRMLJwcmo3WldLZVNwWHFSbXROQT09)
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