Special Aronszajn trees and Kurepa trees

Marlene Koelbing

Abstract

I will talk about special $\aleph_n$-Aronszajn trees and $\aleph_n$-Kurepa trees. The main result I want to present is the consistency of the statement that the following holds for every $0 < n < \omega$: all $\aleph_n$-Aronszajn trees are special, there are such, and there exists no $\aleph_n$-Kurepa tree.

The proof needs ω-many supercompact cardinals. I will discuss the main ideas of the proof.

This is joint work with Sy-David Friedman.