James Cummings (CMU)

The tree property revisited (joint work with Spencer Unger)

An old open problem in set theory asks whether it is consistent that every $\kappa > \aleph_1$ has the tree property. Motivated by this problem we prove:

Theorem (Cummings and Unger): It is consistent from large cardinals that there is a singular strong limit cardinal κ such that κ^{++} has the tree property, and there is no special κ^+-tree.