

Title: Fragments of Martin's Axiom and the existence of a non-special Aronszajn tree

Abstract: In the paper [A non-implication between fragments of Martin's Axiom related to some property which comes from Aronszajn trees, *Ann. Pure Appl. Logic* 161 (2010), no. 4, 469-487] (and its correction, *Ann. Pure Appl. Logic* 162 (2011), 752-754), I introduced the property R_{1, \aleph_1} which is stronger than the countable chain condition, and proved that it is consistent that every forcing notion with the property R_{1, \aleph_1} has precaliber \aleph_1 and there exists a non-special Aronszajn tree (hence MA_{\aleph_1} for forcing notions with the property R_{1, \aleph_1}). I will give a talk on a slight improvement of this result.