

- ▶ HEIKE MILDENBERGER AND SAHARON SHELAH, *Proper Translation*.
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We continue our work on weak diamonds [1]. We show that $2^\omega = \aleph_2$ together with the weak diamond for covering by slaloms, the weak diamond for covering by meagre sets, the weak diamond for covering by null sets, and “all Aronszajn trees are special” is consistent relative to ZFC. We iterate alternately forcings specialising Aronszajn trees without adding reals (the NNR forcing from [2, Ch. IV]) and $< \omega_1$ -proper forcings adding reals. We show that over a tower of elementary submodels there is a sort of a reduction (“proper translation”) of our iteration to the c.s. iteration of simpler iterands. If we use only Sacks iterands and NNR iterands, this allows us to guess the values of Borel functions into small trees and thus derive the weak diamonds.

[1] HEIKE MILDENBERGER AND SAHARON SHELAH, *Specializing Aronszajn trees and preserving some weak diamonds*, **Journal of Applied Analysis**, 15(1):47–78, 2009.

[2] Saharon Shelah, *Proper and Improper Forcing, 2nd Edition*, Springer, 1998.