

# Expected values for the a.d. number and 3D-iterations

Diego A. Mejía

## Abstract

In many models, constructed by FS-iterations of ccc posets, where many cardinal invariants assume pairwise different values, it is expected that the *bounding number*  $\mathfrak{b}$  is equal to the *a. d. (almost disjointness) number*  $\mathfrak{a}$  though there have not been proofs of that so far.

In a recent project with Vera Fischer, Sy Friedman and Diana Montoya-Amaya, we found out that some of these iterations can be extended to a matrix or a 3D-iteration to force, additionally,  $\mathfrak{b} = \mathfrak{a}$ .