

MULTIPLE GAPS

ANTONIO AVILÉS

We shall review some aspects of the joint research program with Stevo Todorćević on multiple gaps, the multidimensional version of usual gaps where several (instead of just two) families of sets are involved. We paid special attention to the case of analytic (or at least definable in some way) gaps, for which a strong structural theory exists, related to the study of the n -ary tree $n^{<\omega}$.