SEPARATING THE BOUNDING AND DOMINATING NUMBERS FOR CLASSES OF UNCOUNTABLE STRUCTURES

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ABSTRACT. We consider classes of structures of uncountable size $\kappa = \kappa^{<\kappa}$ which omit certain substructures of size κ, for example the class of trees of height and width κ without κ-branches and the class of partial orders of size κ without increasing κ-chains. In joint work with Katie Thompson, we show that the bounding and dominating numbers of these classes up to embeddability can be separated.