

- DAVID VALDERRAMA, *Interactions between density cardinals and variants of the reaping and splitting number*.

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Recently, many cardinal invariants have been defined using the notion of asymptotic density, particularly to create variants of the splitting or reaping number (see [2]), or to address the question of how many permutations are needed to alter the density of infinite-cofinite sets (see [1]). In this talk, we present several relations and consistency results concerning these new cardinals, as developed in our recent work [3].

[1] CHRISTINA BRECH, JÖRG BRENDLE, AND MÁRCIO TELLES, *Density cardinals*, *Journal of the London Mathematical Society*, to appear.

[2] BARNABÁS FARKAS, LUKAS DANIEL KLAUSNER, AND AND MARC LISCHKA, *More on halfway new cardinal characteristics*, *The Journal of Symbolic Logic*, vol. 90 (2025), no. 3, pp. 1324–1339.

[3] DAVID VALDERRAMA, *Splitting Families, reaping Families, and families of permutations associated with asymptotic density*, submitted.