

Singularizing Successor Cardinals

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Namba forcing singularizes the successor cardinal \aleph_2 , giving it cofinality \aleph_0 , without collapsing \aleph_1 . We exhibit a simple construction of a ground model with a regular cardinal κ over which there is a Namba-like forcing which gives κ^+ cofinality \aleph_0 without collapsing cardinals or cofinalities $\leq \kappa$. The construction uses a measurable cardinal, and indeed covering arguments show that a measurable cardinal is necessary. We also discuss singularizations to cofinalities other than \aleph_0 and singularizations of successors of singular cardinals. This is joint work with Dominik Adolf, Berkeley and Arthur Apter, CUNY.