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The extent of the failure of Ramsey's theorem at uncountable cardinals

We study the principle c_κ, which asserts the existence of a coloring $c : [\kappa]^2 \to \kappa$ with the property that $c[A \times B] = \kappa$ for every cofinal subsets A, B of κ.

It is established that c_κ holds whenever (1) κ is the successor of a regular cardinal, (2) κ is the successor of a singular cardinal and $\kappa \nrightarrow [\kappa]^2_\kappa$. This is joint work with Stevo Todorcevic.