Partitioning Pairs of Uncountable Sets

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Let κ be a regular cardinal and λ a cardinal greater than κ. Using the method of minimal walks, Todorčević gave a coloring of the pairs of $x \subset y$ from $[\lambda]^\kappa$ with λ colors such that every cofinal subset of $[\lambda]^\kappa$ should contain a pair for each color. We will show how to push up the number of colors to λ^+ in case $\kappa^{cf\lambda} = \kappa$.

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