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Homogeneous sets for colorings of $\ensuremath{\mathbb{N}}$

I will discuss joint work with Carl Jockusch, in particular the result that there is a 3-coloring c of $\mathbb N$ such that every 2-coloring of $\mathbb N$ has an infinite homogeneous set that does not compute an infinite homogeneous set for c. This result is related to a variation on the notion of infinite information reducibility introduced by Dzhafarov and Igusa, as well as to the project of comparing Π_2^1 principles via computability-theoretic notions of reduction.