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Large Turing Independent Sets

Joint work with S. Shelah

A set of reals X is Turing independent iff the Turing join of any finite subset of X does not compute another real in X . We will discuss some problems of the following type: Does every "large" set of reals have a "large" Turing independent subset? Here "large" will be interpreted in the sense of "cardinality", "measure" and "category".