

Coding in structures

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We say that a structure A codes a piece of information X if every copy of A computes a copy of X . Here, X might be (in order of increasing complexity) a set of natural numbers, a family of sets of natural numbers, a tree, or another structure. I will talk about some results and questions around trying to understand what can be coded in one way but not another, and how these different ways of coding are of increasing complexity.