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Injection Codes

An n -ary *injection code* of length m and minimum distance d is a set Γ of injections from an m -set (of positions) into an n -set (of symbols) such that any two different words in Γ have Hamming distance $\geq d$. When $n = m$, an injection code becomes a *permutation code*. And when Γ meets a certain upper bound, it becomes an *ordered design*.

This talk will survey my preliminary observations on injection codes.