

## **Linear-time list recovery of high-rate expander codes**

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An error-correcting code is called list recoverable if a small list of codewords can be recovered, even if there is some uncertainty in every symbol of the received word. More explicitly, a code is called  $(L,m)$  list recoverable, if given a list of at most  $L$  possible symbols at each index, there are at most  $m$  possible codewords that are consistent with each list. List recoverable codes have applications to list decoding, compressed sensing, and combinatorial group testing. In this talk, I'll present a new construction of list recoverable that meet the singleton bound and have a linear time recovery algorithm.

<http://arxiv.org/abs/1503.01955>