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Fan Chung* (fan@ucsd.edu), 1555 coast walk, La jolla, CA 92037. *Sparse quasi-random graphs and sequences*. Preliminary report.

It is now known that many properties of the objects in certain combinatorial structures are equivalent, in the sense that any object possessing any of the properties must of necessity possess them all. These properties, termed quasi-random, have been described for a variety of structures such as graphs, hypergraphs, tournaments, Boolean functions, and subsets of Z_n . We will discuss some extension of these ideas to sparse graphs and sequences.

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