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Jerrold R Griggs, Kevin G Milans and David Offner*, offnerde@westminster.edu, and
David Stoner. *Tiling the hypercube.* Preliminary report.

A graph G *tiles* another graph H if the vertices of H can be partitioned into disjoint sets so that each set induces a copy of G . We investigate which subgraphs tile the n -dimensional hypercube for n sufficiently large. All subgraphs of the hypercube with 2^k vertices for some integer k and at most one cycle have this property. (Received September 19, 2015)