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*On Maximal Independent Sets in Cartesian Products*

A graph is said to be *well-covered* if all of its maximal independent sets have the same cardinality. In this talk we present our preliminary work on the question, “When is the Cartesian product  $G \square H$  of two graphs  $G$  and  $H$  well-covered?” In particular, we prove that if  $G \square H$  is well-covered, then at least one of  $G$  or  $H$  is well-covered. This answers a question of Topp and Volkmann posed in 1992.

This is joint work with Bert Hartnell.