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Forts, (fractional) zero forcing, and Cartesian products of graphs

In this talk, we introduce the (disjoint) fort number, fractional zero forcing number, and fort hypergraph. The hypergraph results on transversals and matchings are applied to the zero forcing number and fort number. These results are used to establish a Vizing-like lower bound for the zero forcing number of a Cartesian product of graphs for certain families of graphs, and a family of graphs achieving this lower bound is exhibited.