

THE INDEPENDENT DOMINATION NUMBER OF A GRAPH REVISITED

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A set S of vertices in a graph G is an independent dominating set if S is an independent set and every vertex not in S is adjacent to a vertex in S . In this talk we review questions and results about independent domination, both old and new. This includes the relationship to independence and domination numbers, bounds for families such as chessboard graphs, and other results such as Nordhaus-Gaddum bounds and the connection with fall colorings. Especially we consider regular graphs and the question of the maximum independent domination for cn -regular graphs of order n . This includes joint work with M.A. Henning, J. Lyle, and J. Southey.