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Optimal Graphs for Domination Polynomials

Let G be a graph on n vertices and m edges and $D(G, x)$ the domination polynomial of G . In this talk we will completely characterize the values of n and m for which optimal graphs exist for domination polynomials. Applications to network reliability will be highlighted. This is joint work with Iain Beaton (Dalhousie University) and Jason Brown (Dalhousie University).