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Relationships among some graph algebras on some graph classes

Let X be a graph with n vertices and A be the adjacency matrix of X . By a graph algebra of X , we mean a matrix subalgebra of $M_n(\mathbb{C})$ which contains A , where \mathbb{C} is the field of complex numbers. In this study we explore the relationships among the following four graph algebras of a graph X for several graph classes.

a) adjacency algebra b) commutant algebra c) coherent closure and d) centralizer algebra.