

WELL-COVERED CIRCULANT GRAPHS

Abstract: The interplay of algebraic structures and graph-theoretic properties have been rigorously studied in the last few decades. In this backdrop, we discuss circulant graphs, among graphs that deal with the graphical representation of algebraic structures.

A graph G is said to be well-covered if every maximal independent set in G is also maximum. In this talk, we deliberate on the well-coveredness of circulant graphs and present a conjecture on 4-regular well-covered circulants.