

1011-05-368

Michael S. Lang*, Bradley University, 1501 W Bradley Ave, Peoria, IL 61625. *Pseudo Idempotents and Bipartite Q-Polynomial Distance-Regular Graphs*. Preliminary report.

Pseudo idempotents are a generalization of primitive idempotents, associated with any complex number rather than only eigenvalues. They allow characterization of some interesting combinatorial and algebraic conditions. I will describe a few of the results that are known about pseudo idempotents, including their behavior in bipartite Q-polynomial distance-regular graphs. (Received August 30, 2005)