1163-05-944 **Axel Gomez*** (axel.gomez@upr.edu), **Lucy A Martinez**, **Jan Carrasquillo-Lopez**, **Heidi D. Perez**, **Sebastian Papanikolaou** and **Lino Yoshikawa**. *Minimum Rank of Regular Bipartite Graphs.*

The minimum rank of a graph G is the smallest possible rank of a matrix A over any field with the same off–diagonal, nonzero pattern as the adjacency matrix of G. In this talk, we show the true minimum rank of a class of $n-1$ regular bipartite graphs where $|V_1| = |V_2| = n$ using zero forcing sets and linear recursive sequences. We also discuss the relation between the minimum rank of G and the possible dimension of a Locally Recoverable Code whose recovery sets are the neighborhoods of G. (Received September 14, 2020)