

1135-VP-2434 **Lisa A Lister*** (llister@bloomu.edu), 224 Ben Franklin Hall, Dept. of Mathematical and Digital Sciences, Bloomsburg University, Bloomsburg, PA 17815. *Rank Decompositions of $(0, 1, -1, *)$ -Matrices*. Preliminary report.

In this talk we use bipartite graphs to look at pattern preserving rank decompositions of matrices. In particular, we consider the families of $(0, 1, -1, *)$ -matrices, giving necessary and conjectured sufficient conditions for these families to support rank decompositions. (Received September 26, 2017)