

1133-15-199

Radu Balan* (rvbalan@math.umd.edu), Department of Mathematics, University of Maryland, College Park, MD 20742. *Norms and embeddings of classes of positive semidefinite matrices*. Preliminary report.

In this talk we consider several classes of positive semidefinite matrices. Specifically we consider the properties of bounded rank, unit trace, and their intersection. We analyze two family of metrics, the norm metrics, and the Bures/Hellinger metric. Next we analyze linear embeddings in Euclidean spaces and their bi-Lipschitz properties. (Received July 25, 2017)