國立東華大學應用數學系專題演講

主講人: 杜鴻科教授

陝西師範大學數學與信息科學學院

講 題: Variances of operators and Bottcher and Wenzel's theorem

時 間:100年11月04日(星期五) 15:10-16:50

地 點:理學院A324會議室

摘 要

An alternative proof of Bottcher and Wenzel's theorem (A. Bottcher, D. Wenzel, The Frobenius norm and the commutator, Linear Application Appl.429(2008)1864-1885) is given which is based on the idea of operator probability (S. Gudder, Operator probability theory, preprint, 2007). For a pair (X, Y) of Hilbert-Schmidt operators, we prove that to study a maximal pair (X, Y) in sense that $||XY - YX^T||_2 = \sqrt{2}||X||_2||Y||_2$, it is sufficient to consider the set M_3 of all complex 3×3 matrices.



※※※ 歡 迎 参 加 ※※※_{sc1001104}