

The von Neumann inequality for d -tuples of
 3×3 commutative row contractive matrices
with a joint spectrum in the d -dimensional
Euclidean unit ball

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I will discuss the classical von Neumann inequality and some of its generalisations. Moreover, based on results due to Kosiński and Zwonek on Nevanlinna-Pick interpolation problem, and results of Knese, Hartz, Richter and Shalit, I will present my own results on the von Neumann inequality for 3×3 commuting, row contractive matrices.