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Peaking phenomena in finite-dimensions

Complex function theory is a powerful tool for studying operators. Indeed, this is at the heart of numerous applications of the spectral theorem (functional calculi, von Neumann's inequality), as well as countless modern developments. We focus on one connection to function theory that has garnered significant interest in recent years: non-commutative peak points. Their interest is, in part, justified by their ability to detect intrinsic components of a subspace of operators. In this talk, we will discuss a few formulations of peaking, with a particular focus on spaces of matrices. This includes joint work with Raphaël Clouâtre.