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Quasiorthogonal algebras

Two unital subalgebras of a matrix algebra are said to be quasiorthogonal if their trace zero-subspaces are orthogonal in the trace inner product norm. We will explore some existence results for quasiorthogonal algebras and some of their mathematical properties. We will also discuss the application of quasiorthogonality to topics in quantum information (such as quantum error correction, quantum privacy and entanglement).