

Linear Algebra Seminar

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Title: The duality of the matrix transpose and conjugate-inverse maps.

Abstract: Choi (1973) established a duality between the inversion and adjunction of bounded invertible Hilbert space operators, giving analogies between the similarity and congruence relations. We discuss Choi's results in the finite-dimensional setting and show that a similar duality can be found between another pair of maps, the matrix transpose and the matrix conjugate-inverse maps.