MAPS ON IDEMPOTENTS

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The set of all $n \times n$ idempotent matrices is known to be a poset (partially ordered set) with the partial order defined by $P \leq Q$ if $PQ = QP = P$. There is another natural relation defined on this set, that is, the orthogonality relation defined by $P \perp Q$ if $PQ = QP = 0$. Homomorphisms with respect to these two relations will be discussed.