

# Further properties of a pair of orthogonal projectors

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## Abstract

Representing two orthogonal projectors on a finite dimensional vector spaces (i.e., Hermitian idempotent matrices) as partitioned matrices turns out to be very powerful tool in considering properties of such a pair. The usefulness of this representation is discussed and several new characterizations of a pair of orthogonal projectors are provided, with particular attention paid to the spectral properties.

## Keywords

Hermitian idempotent matrix, Partitioned matrix.