

**Pseudo core invertibility in a certain finite-dimensional
*-algebra generated by two projections**

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Abstract. We investigate the existence criterion and formulae of pseudo core inverses of elements in a certain finite-dimensional *-algebra generated by two projections p and q under some prescribed conditions that $(pq)^2 = pq$ and $pqp = \lambda p$ ($\lambda \in \mathbb{F}$), respectively. In addition, we solve a question about Drazin invertibility proposed by Chen *et al.*

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