

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

Author(s): Wende Li, Jianlong Chen and Yukun Zhou

We investigate the existence criterion and formulae of pseudo core inverses of elements in the 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.*

Address:

Wende Li
School of Mathematics
Southeast University
Nanjing 210096
China

Address:

Jianlong Chen
School of Mathematics
Southeast University
Nanjing 210096
China

Address:

Yukun Zhou
School of Mathematics
Southeast University
Nanjing 210096
China