

**Cheon, G.-S.; Johnson, C. R.; Lee, S.-G.; Pribble, E. J.**  
**The possible numbers of zeros in an orthogonal matrix.** (English) Zbl 0918.15007  
*Electron. J. Linear Algebra* 5, 19-23 (1999).

It is shown that for  $n \geq 2$  there is an  $n \times n$  indecomposable orthogonal matrix with exactly  $k$  entries equal to zero if and only if  $0 \leq k \leq (n - 2)^2$ .

Reviewer: G.Bonanno (Davis)

**MSC:**

**15B57** Hermitian, skew-Hermitian, and related matrices  
**05C50** Graphs and linear algebra (matrices, eigenvalues, etc.)

Cited in **6** Documents

**Keywords:**

numbers of zeros; indecomposable matrix; orthogonal matrix

**Full Text:** [DOI](#) [EuDML](#) [EMIS](#)