

ABOUT OF NUMBER NEGATIVE EIGENVALUES FOR A PRODUCT OF SELFADJOINT OPERATORS

Denisov M. S.

The main result of our work is following: if A and B are linear, continuous, self-adjoint operators, $\sigma(A) \cap (-\infty, 0)$ and $\sigma(B) \cap (-\infty, 0)$ consist from m and n negative eigenvalues, with they multiplicity, and in addition $\ker(A) = \ker(B) = \{0\}$ and $n > m \geq 0$, then operators AB and BA have $n - m$ negative eigenvalues, with they multiplicity.