\((A,m)\)-SYMMETRIC COMMUTING TUPLES OF OPERATORS ON A HILBERT SPACE

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Abstract. Let \(T = (T_1, \ldots, T_d)\) and \(A\) be a commuting \(d\)-tuple of operators and a positive operator on a complex Hilbert space, respectively. We introduce an \((A,m)\)-symmetric commuting tuple of operators and characterize the joint approximate point spectrum of \((A,m)\)-symmetric commuting tuple \(T\). Next we introduce an \((A,m)\)-expansive symmetric commuting tuple of operators and show basic properties of \((A,m)\)-expansive symmetric commuting tuple.


Keywords and phrases: Hilbert space, symmetric operator, symmetric commuting tuple of operators.

REFERENCES

