

عنوان مقاله:

GENERALIZED JOINT HIGHER-RANK NUMERICAL RANGE

محل انتشار:

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تعداد صفحات اصل مقاله: 9

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خلاصه مقاله:

The rank- k numerical range has a close connection to the construction of quantum error correction code for a noisy quantum channel. For a noisy quantum channel, a quantum errorcorrecting code of dimension k exists, if and only if the associated joint rank- k numerical range is non-empty. In this paper, the notion of joint rank- k numerical range is generalized, and some statements of [2011, Generalized numerical ranges and quantum error correction, J. Operator Theory, 66: 2, 335-351.] are extended

کلمات کلیدی:

Generalized projector, Joint higher rank numerical range, Joint matrix numerical range, Joint matrix higher rank numerical range, Generalized joint higher rank numerical range

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