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k–QUASI–A–PARANORMAL OPERATORS IN SEMI–HILBERTIAN SPACES

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Abstract. In this paper, we introduce and analyze a new class of generalized paranormal operators, namely k-quasi-A-paranormal operators for a bounded linear operator acting on a complex Hilbert space $\mathscr{H}$ when an additional semi-inner product induced by a positive operator A is considered. After establishing the basic properties of such operators. We extend some results obtained in several papers related to this class on a Hilbert space. In addition, we characterize the spectra and tensor product of these operators.

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