

Turkish Journal of Mathematics

Turkish Journal

COMPARISON OF INVARIANTS FOR TRIPLES OF HILBERT SPACES

of

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Mathematics

Abstract: In [2,3] the sequence of invariant characteristics (μ_m) for the finite families of Hilbert spaces were considered. Here we make a comparison of these invariants among themselves. We construct some examples of triples of Hilbert spaces, which show that each system of the first $r+1$ characteristics is stronger than the system of the first r of them. Moreover we show that there exist triples of Hilbert spaces which on the one hand are not quasidiagonally isomorphic, but on the other hand they cannot be distinguished by any function $\mu_m, \lambda, \lambda, m \in \mathbb{N}$.

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