

IRREDUCIBLE REPRESENTATIONS OF HILBERT C^* -MODULES

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[Received 13 September 2004. Read 31 January 2005. Published 11 March 2005.]

ABSTRACT

The subject of the paper is representations of Hilbert C^* -modules. We introduce the concept of a nondegenerate, irreducible and cyclic representation and the commutant of a Hilbert C^* -module. Relations between representations of a Hilbert C^* -module, its linking algebra and underlying C^* -algebras are discussed. We also study Hilbert CCR - and GCR -modules and extend some results from CCR - and GCR -algebras. The results we obtain are similar to the results known for C^* -algebras.