COMPACT AND “COMPACT” OPERATORS ON STANDARD HILBERT MODULES OVER $C^*$-ALGEBRAS

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ABSTRACT. We construct a topology on the standard Hilbert module $H_A$ over a unital $C^*$-algebra and topology on $H_A^\#$ (the extension of the module $H_A$ by the algebra $A^*$) such that any “compact” operator (i.e. any operator in the norm closure of the linear span of the operators of the form $z \mapsto x \langle y, z \rangle$, $x, y \in H_A$ (or $x, y \in H_A^\#$)) maps bounded sets into totally bounded sets.

REFERENCES

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