



Banach J. Math. Anal. 7 (2013), no. 1, 97–106

BANACH JOURNAL OF MATHEMATICAL ANALYSIS

ISSN: 1735-8787 (electronic)

www.emis.de/journals/BJMA/

MCINTOSH FORMULA FOR THE GAP BETWEEN REGULAR OPERATORS

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Communicated by M. Frank

ABSTRACT. We derive an equivalent definition for the gap between two complemented submodules of a Hilbert C^* -module which is same as the one for closed subspaces of a Banach space. This gives an alternative way of defining gap between two regular operators. We give an alternative proof of the latter result. We also derive the McIntosh formula for computing the gap between two regular operators between Hilbert C^* -modules which is analogous to that of unbounded operators between Hilbert spaces.

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Date: Received: 7 April 2012; Revised: 20 June 2012; Accepted: 26 July 2012.

2010 Mathematics Subject Classification. Primary: 46L08; Secondary: 47A55, 47C15.

Key words and phrases. Hilbert C^* -module, gap, regular operator, McIntosh formula.