NEW INEQUALITIES FOR G–FRAMES IN HILBERT C∗–MODULES

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Abstract. In this paper, we establish several new inequalities for g-frames in Hilbert C∗-modules which are different in structure from those previously obtained by Balan et al. for Hilbert space frames. We also present some equalities and inequalities for g-frames in Hilbert C∗-modules with Moore–Penrose inverses and show that they are more general and cover some results in [Xiao, XC, Zeng, XM: Some properties of g-frames in Hilbert C∗-modules. J. Math. Anal. Appl. 363 (2), 399–408 (2010)].

Keywords and phrases: Hilbert C∗-module, frame, inequality, Moore–Penrose inverse.

REFERENCES