

Banach J. Math. Anal. 8 (2014), no. 2, 131–138

BANACH JOURNAL OF MATHEMATICAL ANALYSIS ISSN: 1735-8787 (electronic) www.emis.de/journals/BJMA/

STRONG COEFFICIENT QUANTIZATION PROPERTIES IN BANACH SPACES

KYUGEUN CHO¹, JU MYUNG KIM $^{\ast 2},$ SUN KWANG KIM $^{3},$ HAN JU LEE 4

To the memory of Professor Edward Odell

Communicated by D. E. Alspach

ABSTRACT. We prove that a dictionary for a Banach space X has the strong coefficient quantization property if it has the same property when it restricted on the unit ball of X. We also obtain the same result for the strong net quantization property.

 1 Bangmok College of Basic Studies, Myong Ji University, Yong-In, Kyung-Ki 449-728, Korea

E-mail address: kgjo@mju.ac.kr

 2 Department of Mathematical Sciences, Seoul National University, Seoul 151-747, Korea.

E-mail address: kjm21@kaist.ac.kr

³ DEPARTMENT OF MATHEMATICS, KYONGGI UNIVERSITY , SUWON 443-760, KOREA. *E-mail address:* sunkwang@kgu.ac.kr

⁴ Department of Mathematics Education, Dongguk University - Seoul, Seoul 100-715, Korea.

E-mail address: hanjulee@dongguk.edu

Date: Received: Aug. 28, 2013; Accepted: Nov. 23, 2013.

* Corresponding author.

²⁰¹⁰ Mathematics Subject Classification. Primary 46B20; Secondary 46B45.

Key words and phrases. coefficient quantization property, strong coefficient quantization property, net quantization property, strong net quantization property.