



Banach J. Math. Anal. 1 (2007), no. 1, 91–100

---

**BANACH JOURNAL OF MATHEMATICAL ANALYSIS**

ISSN: 1735-8787 (electronic)

<http://www.math-analysis.org>

---

## STABILITY OF A JENSEN TYPE FUNCTIONAL EQUATION

YOUNG-SU LEE<sup>1\*</sup> AND SOON-YEONG CHUNG<sup>2</sup>

*This paper is dedicated to Professor Themistocles M. Rassias.*

Submitted by C. Park

ABSTRACT. In this paper we consider the general solution of a Jensen type functional equation. Moreover we prove the stability theorem of this equation in the spirit of Hyers, Ulam, Rassias and Găvruta.

<sup>1</sup> DEPARTMENT OF MATHEMATICS, SOGANG UNIVERSITY, SEOUL 121-741, REPUBLIC OF KOREA.

*E-mail address:* [masuri@sogang.ac.kr](mailto:masuri@sogang.ac.kr)

<sup>2</sup> DEPARTMENT OF MATHEMATICS AND THE INTERDISCIPLINARY PROGRAM OF INTEGRATED BIOTECHNOLOGY, SOGANG UNIVERSITY, SEOUL 121-741, REPUBLIC OF KOREA.

*E-mail address:* [sychung@sogang.ac.kr](mailto:sychung@sogang.ac.kr)

---

*Date:* Received: 2 January 2007; Accepted: 17 October 2007.

\* Corresponding author.

2000 *Mathematics Subject Classification.* Primary 39B82; Secondary 39B52.

*Key words and phrases.* Hyers–Ulam–Rassias stability, Jensen functional equation.