



Ann. Funct. Anal. 2 (2011), no. 1, 59–71

ANNALS OF FUNCTIONAL ANALYSIS

ISSN: 2008-8752 (electronic)

URL: www.emis.de/journals/AFA/

FIXED POINTS OF (ψ, ϕ) -WEAK CONTRACTIONS IN CONE METRIC SPACES

C. T. AAGE¹ AND J. N. SALUNKE^{2*}

Communicated by V. Muller

ABSTRACT. In this paper we have established the fixed point theorem of self maps for (ψ, ϕ) -weak contractions in cone metric spaces. Also our result is supported by an example.

¹ SCHOOL OF MATHEMATICAL SCIENCES, NORTH MAHARASHTRA UNIVERSITY, JALGAON-425001, INDIA.

E-mail address: caage17@gmail.com

² SCHOOL OF MATHEMATICAL SCIENCES, NORTH MAHARASHTRA UNIVERSITY, JALGAON-425001, INDIA.

E-mail address: drjnsalunke@gmail.com

Date: Received: 2 August 2010; Revised: 21 December 2010; Accepted: 31 March 2011.

¹ Corresponding author.

2010 *Mathematics Subject Classification.* Primary 47H10, Secondary 54H25.

Key words and phrases. Banach space, cone metric space, weak contraction, fixed point.