

## CONVERGENCE ESTIMATES OF CERTAIN $q$ -BETA-SZÁSZ TYPE OPERATORS

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*Abstract.* The applications of  $q$  calculus in operator theory is an active area of research in the last two decades. Several new  $q$ -operators were introduced and their approximation behavior were discussed. This paper is extension of the paper [South. Asian Bul. Math. (36) (2012), 343–352]. We propose here the Stancu variant of  $q$ -Beta-Szász type operators. We estimate the moments and also establish direct results in terms of modulus of continuity.

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