



STUDIES ON SOME QUANTUM DIFFERENCE SEQUENCE SPACES IN GRADUAL NORMED LINEAR SPACE

SHYAMAL DEBNATH

Department of Mathematics

Tripura University (A Central University), Suryamaninagar-799022, Agartala, India.

(E-mail: shyamalnitamath@gmail.com)

and

HAMARI DEBBARMA

Department of Mathematics

Tripura University (A Central University), Suryamaninagar-799022, Agartala, India.

(E-mail: debbarmah07@gmail.com)

Abstract. In this paper, we introduce and investigate some new classes of sequences of quantum difference operator ∇_q in gradual normed linear space $(U, \|\cdot\|_G)$, denoted by $(\ell_\infty^G)_{\nabla_q}$, $(c^G)_{\nabla_q}$ and $(c_0^G)_{\nabla_q}$, respectively. We discuss some algebraic and topological properties of these spaces. Furthermore, we study some inclusions involving these spaces.

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