1128-39-109 **M N Islam*** (mislam1@udayton.edu), Department of Mathematics, University of Dayton, Dayton, OH 45458, and **J T Neugebauer**. Asymptotically P-Periodic Solutions of a Quantum Volterra Integral Equation. Preliminary report.

Abstract. In this paper, we study the existence of an asymptotically periodic solution of a Volterra integral equation on the time scale q^{N_0} , which we call a quantum Volterra integral equation. In the process, we study the existence of periodic solutions of an associated equation on the time scale $q^{\bar{Z}}$, which is an extension of q^{N_0} . We employ Schauder's fixed point theorem in the analysis. (Received February 18, 2017)