

1096-60-2126

**Paul H Bezandry\*** (pbezandry@howard.edu), 2441 6th Street, NW, Washington, DC 20059. *On the existence of almost automorphic solutions of nonlinear Volterra stochastic difference equation.*

In this talk, we introduce a concept of almost automorphy for random sequences. Using the Banach contraction principle, we establish the existence and uniqueness of an almost automorphic solution to some Volterra stochastic difference equation in a Banach space. Our main results extend some known ones in the sense of mean almost automorphy. As an application, almost automorphic solution to a concrete stochastic difference equation is analyzed to illustrate our abstract results. (Received September 17, 2013)