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**Toka Diagana\*** (tokadiag@gmail.com), Department of Mathematics, Howard University, 2441 6th Street NW, Washington, DC 20059. *Pseudo Almost Automorphic Solutions to the N-Dimensional Heat Equation with  $S^p$ -Pseudo Almost Automorphic Coefficients*. Preliminary report.

In this talk we will establish the existence of pseudo almost automorphic solutions to the N-dimensional heat equation subject to Dirichlet boundary conditions with Stepanov-like-pseudo almost automorphic coefficients. (Received September 16, 2008)