1033-37-31 **Minh Van Nguyen*** (vnguyen@westga.edu), Department of Mathematics, University of West Georgia, Carrollton, GA 30118. *A generalization of Lyapunov Theorem for the strong stability and the asymptotic behavior of linear dynamical systems.*

In this talk we present a new approach to the asymptotic behavior of linear dynamical systems via a new approach to the spectral theory of functions and a new framework for the Loomis-Arendt-Batty-Vu theory. Our approach is direct and free of strongly continuous semigroups, so the obtained results, that extend previous ones, can be applied to large classes of evolution equations and their solutions. (Received August 11, 2007)