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Haiyan Wang* (wangh@asu.edu), Math Sciences and Applied Computing, Arizona State University, Phoenix, AZ 85069. *Nonlinear Systems of Differential Equations.*

In this talk we will discuss the existence of positive solutions for nonlinear systems of differential equations based on new concepts of superlinearity and sublinearity for systems of differential equations. I will also present several new results for the existence of convex solutions of differential equations. (Received September 08, 2005)