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Lianwen Wang* (lwang@ucmo.edu). *On Monotonic Solutions of Systems of Nonlinear Differential Equations.*

In this talk we consider bounded and monotonic solutions for a system of nonlinear differential equations. Necessary and sufficient conditions for the boundedness of all solutions are established. Moreover, all monotonic solutions of the system are classified into categories, and necessary and sufficient condition for the existence of each category is provided. (Received September 22, 2015)