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**Gangaram S. Ladde\*** (gladde@usf.edu), Department of Mathematics and Statistics, University of South Florida, 4202 East Fowler Avenue, PHY 114, Tampa, FL 33620-5700, and **Jinghan Meng**. *ENERGY FUNCTION AND STOCHASTIC DIFFERENTIAL UNDER MULTI-SCALES*. Preliminary report.

By utilizing energy like functions several comparison results are developed. The obtained results applied to study the qualitative behavior of stochastic differential equations under multiple time scales. (Received January 18, 2011)