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M. Rahman* (mrahman@unf.edu), Department of Mathematics & Statistics, University of North Florida, 1 UNF Drive, Jacksonville, FL 32224. *Simulation of Stochastic Differential Equations arises in mathematical neurosciences*. Preliminary report.

We develop and apply method of stochastic differential approximation to a canonical model arises in a circular process in mathematical neurosciences. We also investigate the role of noise in the circular process numerically. (Received September 14, 2014)