1152-35-408   **Chi Phan*** (`chi@mail.usf.edu`), Department of Mathematics and Statistics, University of South Florida, 4202 E Fowler Ave, CMC342, Tampa, FL 33620, and **Yuncheng You** (`you@mail.usf.edu`), Department of Mathematics and Statistics, University of South Florida, 4202 E Fowler Ave, CMC342, Tampa, FL 33620. *Global Attractors for Hindmarsh-Rose Equations in Neurodynamics.*

Global dynamics of the diffusive Hindmarsh-Rose equations on a three-dimensional bounded domain originated in neurodynamics are investigated in this paper. The existence of global attractors as well as the regularity are proved through various uniform estimates showing the dissipative properties and the asymptotically compact characteristics. (Received September 09, 2019)