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Jerome Goddard II* (jgoddard@aum.edu) and **R. Shivaji** (shivaji@uncg.edu). *Diffusive logistic equation with constant yield harvesting and negative density dependent emigration on the boundary.*

The structure of positive steady state solutions of a diffusive logistic population model with constant yield harvesting and negative density dependent emigration on the boundary is examined. In particular, a class of nonlinear boundary conditions that depends both on the population density and the diffusion coefficient is used to model the effects of negative density dependent emigration on the boundary. In this presentation, we discuss existence results established via the well-known sub-super solution method. (Received September 16, 2013)