

1154-35-2191 **Elliott Z Hollifield*** (ezhollif@uncg.edu), 116 Petty Building, PO Box 26170, Greensboro, NC 27402, and **Maya Chhetri** and **Petr Girg**. *Fractional Laplacian problems involving logistic reaction terms.*

We discuss existence of positive solutions to fractional Laplacian problems involving logistic reaction terms. We use the method of sub- and super solutions to establish existence results. We also discuss numerical bifurcation diagrams and profiles of positive solutions, corresponding to theoretical results, using a Finite Element Method. (Received September 17, 2019)