

1167-35-313

Shalmali Bandyopadhyay* (s_bandyo@uncg.edu), 1823 Sherwood Street, Apt C, Greensboro, NC 27403, and **B Delgado, M Chhetri, N Mavinga** and **R Pardo**. *A bifurcation result for an elliptic problem with superlinear subcritical non linearity on the boundary.*

We consider an elliptic problem coupled with a nonlinear boundary condition on a bounded domain. We discuss the existence of a positive solution with respect to a bifurcation parameter when the nonlinearity is superlinear and subcritical. We will show that positive solutions bifurcate from infinity when the bifurcation parameter is zero by employing degree theory. (Received March 09, 2021)