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N. Mavinga* (mavinga@swarthmore.edu) and **M. Nkashama** (nkashama@math.uab.edu).

Bifurcation and multiplicity of strong solutions for elliptic equations with nonlinear boundary conditions.

We present multiplicity results for solutions of second order elliptic partial differential equations with nonlinear boundary conditions. We impose asymptotic resonance conditions type with respect to the Steklov spectrum on the boundary nonlinearity and use the Lyapunov-Schmidt procedure to establish a priori estimates. We prove the results using topological degree and bifurcation from infinity arguments. (Received September 21, 2015)