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Title: Solutions for a Kirchhoff equation with nonlinear boundary condition

Abstract: In this work, we study the existence of solutions for some classes of nonlinear elliptic partial differential equation with Steklov nonlinear boundary conditions involving a Kirchhoff type operator. Using the variational methods, under appropriate assumptions on the nonlinearities  $f$  and  $g$ ; we obtain results of existence and multiplicity of solutions.