1015-35-321 **P Amster\*** (pamster@dm.uba.ar), Departamento de Matematica- Facultad de Cienc, Universidad de Buenos Aires, Ciudad Universitaria, Pabellon I, 1428 Buenos Aires, Argentina. Solutions of nonlinear elliptic equations in unbounded Lipschitz domains.

This work is devoted to the study of the elliptic equation  $\Delta u = f(x, u)$  in an exterior non-smooth domain. Applying the method of upper and lower solutions and a diagonal argument, we prove the existence of solutions under various boundary conditions. (Received February 08, 2006)