Perturbed eigenvalue problems
by
Denisa STANCU-DUMITRU

ABSTRACT. We study perturbed eigenvalue problems in which the differential operator involved is $-\Delta u - \text{div}(|\nabla u|^{p-2}\nabla u)$ with $p \in (1, \infty) \setminus \{2\}$. The problems will be analyzed both in bounded and unbounded domains. We will consider either homogeneous Dirichlet boundary conditions or homogeneous Neumann boundary conditions. The proofs are based on adequate variational methods. This is a joint work with Maria Fărcăşeanu and Mihai Mihăilescu.