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Bifurcation from infinity with oscillatory nonlinearity for Neumann problems

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Abstract

We consider a sublinear perturbation of an elliptic eigenvalue problem with Neumann boundary condition. We discuss sufficient conditions on the nonlinear perturbation which guarantee that the unbounded continuum, bifurcating from infinity at the first eigenvalue contains an unbounded sequence of turning points as well as an unbounded sequence of resonant solutions. This is a joint work with Nsoki Mavinga and Rosa Pardo.