THE SPECTRUM OF SECOND ORDER MULTI-POINT PROBLEMS AND ASSOCIATED BIFURCATION THEORY

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I will present some recent results about second order ODE's in a compact interval, with so-called multipoint boundary conditions. These relate the value of the solution at the end-points to its value at a finite number of prescribed interior points. Under appropriate conditions, the linear problem has similar spectral properties to the usual self-adjoint Sturm-Liouville case. This is joint work with Bryan Rynne.