

Inverse spectral problem for the operators with non-local potential

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The main object under consideration in the presentation is the second derivative operator on a finite interval with zero boundary conditions perturbed by a self-adjoint integral operator with the degenerate kernel (non-local potential). The inverse problem, i. e., the reconstruction of the perturbation from the spectral data, is solved by means of the step-by-step procedure based on the n -interlacing property of the spectrum.