



Direct and Inverse Spectral Problems for Ordinary Differential and Functional-Differential Operators

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Message from the Guest Editor

This Special Issue is devoted to the spectral theory of ordinary differential and functional–differential operators. Both direct and inverse spectral problems are included. Such problems play a fundamental role in mathematics and have applications in various fields of science and engineering.

Direct spectral problems consist in studying the properties of spectral characteristics such as asymptotical formulas for eigenvalues and eigenfunctions, trace formulas, completeness and basicity of root functions, eigen convergence theorems, etc.

Inverse spectral problems consist in the recovery of operators from their spectral characteristics. In recent years, the theory of inverse problems has been actively developing not only for differential operators, but also for integro-differential operators, functional–differential operators with delays, with frozen arguments, and other related classes of operators.

The topics of the potential submissions are not limited to the issues mentioned above. Papers on applications of spectral problems (e.g., to linear and nonlinear partial differential equations) are also encouraged.





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Message from the Editor-in-Chief

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