SPECTRAL THEORY OF PARTIAL DIFFERENTIAL EQUATIONS

Organizers:

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Aims: This session seeks to bring together researchers working on spectral-theoretic aspects of partial differential equations, including but not limited to those coming from mathematical physics. This covers both the analysis of eigenvalues of partial differential operators with discrete spectrum, as well as properties of operators with essential spectrum, and non-local and non-self-adjoint problems. The emphasis is anticipated to be on topics such as perturbation theory and spectral dependence on parameters, weights etc., non-convergence results and "term-coming-from-nowhere" effects, spectral asymptotics, location of the spectrum and isolated eigenvalues, variational methods, and spectral geometry and shape optimization, but submissions are welcome from all related areas.