



M-FUNCTIONS AND KREIN RESOLVENT FORMULAS FOR NONSELFADJOINT ELLIPTIC BOUNDARY PROBLEMS

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This is a joint work with B.M. Brown and I.G. Wood. A recent presentation of M-functions is extended, by use of an old strategy for the characterisation of closed extensions, to obtain M-functions, Krein resolvent formulas and eigenvalue determination for all the closed extensions of an adjoint pair. The analysis is implemented to elliptic boundary value problems in dimensions > 1 by use of a pseudodifferential boundary operator calculus. This also allows the consideration of problems with limited smoothness.