

Meeting on Computational and Analytic Problems in Spectral Theory

Cardiff School of Computer Science & Informatics, June 6th-9th 2016

Abstract of Talk

THE RELlich INEQUALITY IN $L^p(\Omega)$

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I shall report on recent joint work with David Edmunds on L^p analogues of the classical Rellich inequality in general open subsets Ω of \mathbb{R}^n and similar inequalities involving the p -Laplacian. I shall also examine the application of these inequalities to determining lower bounds on the first eigenvalues of Dirichlet problems on Ω for biharmonic and p -biharmonic operators.