

Inverse Problems Network Meeting 4

Thursday, 17th January 2019 - Friday, 18th January 2019

Mall Room, Level 8 of the School of Mathematics, University of Leeds

Abstract of Talk

DATA RECONSTRUCTION FOR THE BIHARMONIC PLATE EQUATION

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We consider an incomplete boundary data problem for the biharmonic plate equation, where the displacement is known throughout the boundary of the plate but the normal derivative and bending moment are given on only a portion of the boundary. This renders an inverse ill-posed problem. An iterative regularizing method will be presented together with some of its properties, notably convergence. Numerical realisation of the given scheme is included as well.