APPLIED MATHEMATICS COLLOQUIUM

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Hybrid Inverse Problems and Elliptic Systems of Partial Differential Equations

Abstract:
Hybrid inverse problems are the mathematical description of coupled-physics imaging modalities that aim to combine high contrast with high resolution. Several such problems may be recast as redundant systems of (sometimes) elliptic partial differential equations. This talk will review several mathematical results obtained recently for such inverse problems, including injectivity and stability properties and the derivation of explicit inversion procedures.

Monday April 8, 2013
4:30PM
Building 4, Room 145