

MATHEMATICS SEMINAR

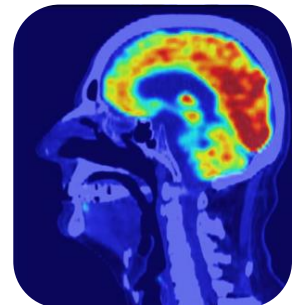


Simple Models with Not-So-Simple Solutions: An Introduction to Inverse, Ill-posed Problems

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In this talk, we walk through the process of obtaining simple linear integral equation models of initial value problems arising in population dynamics and medical imaging.

It is then demonstrated how the difficulty in obtaining accurate solutions to these models stems from the fact that the resulting *inverse* problems are *ill-posed* and that measured data is generally corrupted with noise.



We lastly examine basic regularization techniques designed to counter such difficulties and provide stable approximate solutions.

Friday, November 20, 2015

12:00pm – 1:00pm • Marieb Hall Room 100

This talk will be accessible to students who are currently taking or have already taken a course in differential equations.



Sponsored by the Department of Mathematics
Light Refreshments will be provided