

Math Coffee

How to Scan a CAT

The Mathematics of Computed Tomography
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Most people are familiar with the concept of a *CAT* scan, or have even experienced one themselves. What seems to be much less well known is that there is a lot of mathematics involved. A *CAT* scanner is not some kind of fancy camera; the image is computed, pixel by pixel, from thousands of measurements.

In this talk, I will give an overview of the underlying physics, the resulting mathematical problem, and the numerical methods for solving the problem.

Cowley 102

December 4, Thursday

Cookies: 4:00

Talk: 4:20-5:10