



THE UNIVERSITY OF
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COMPUTATIONAL AND APPLIED MATHEMATICS COLLOQUIUM

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Optical Tomography with Local Data

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via ZOOM

ABSTRACT

Optical tomography is the problem of obtaining reconstructions of the interior of an object from optical measurements at the boundary; the mathematical version of this problem is to reconstruct the coefficients of a PDE from measurements of the solutions at the boundary. Loosely speaking, we say the problem has local data if our measurements are restricted to a subset of the boundary. In this talk I'll discuss a specific local data problem, in which light propagation is modeled by a radiative transport equation. I plan to introduce the problem, talk a bit about the wider context, and discuss a recent result.

For further information and inquiries, please email Zellencia Harris at zellenciah@uchicago.edu. If you wish to subscribe to our listserv, please visit the following website: https://lists.uchicago.edu/web/subscribe/cam_colloquium."