Colloquium

Nonlocality and anisotropy in inverse problems

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In inverse problems one seeks to reconstruct information from indirect measurements. As a consequence, such problems are often notoriously ill-posed, e.g., with severe instability properties. A prototypical example is the Calderon problem in which one seeks to reconstruct an unknown conductivity from indirect measurements of voltages and currents at the surface of a conducting medium. In this talk I will discuss a relation between the Calderon problem and its nonlocal counterpart, the fractional Calderon problem, and will show how in the nonlocal framework even anisotropic settings can be investigated.

Wednesday, May 7, 2025 03:30pm - 04:30pm
Raiffeisen Lecture Hall, Central Building

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