## SPEAKER:

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## TITLE:

Inverse Boundary Value Problems for Polyharmonic Operators with Non-Smooth Coefficients

## **ABSTRACT:**

We are interested in recovering the coefficients of an operator with terms up to order one whose principal part is the polyharmonic operator. Specifically, operators of the form

$$L = (-\Delta)^m + Q \cdot D + q$$

where the coefficients q and Q are in negative order Sobolev spaces. The main theorem is a uniqueness result for the coefficients which relaxes the regularity of the coefficients than previous results. The proof relies on an averaging technique introduced by Haberman and Tataru.