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"Rigidity and Flexibility in PDEs: Uncertainty, Antilocality and the Fractional Calder\'on Problem"

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By ZOOM video webinar system Contact: office@structures.uni-heidelberg.de





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ABSTRACT

Uncertainty principles such as the Heisenberg uncertainty principle are typically associated with limitations in measurements of (physical) processes. In this talk I will view uncertainty principles as rigidity properties of underlying PDEs, relate these to unique continuation properties of associated equations or operators and show how uncertainty principles can be exploited in deducing (local and global) information on inverse problems. As an application I will discuss a non-local analogue of the celebrated inverse problem of Calder\'on.

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