哈尔滨工业大学 数学研究院
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Uncertainty principle, unique continuation and control

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Abstract

The uncertainty principle, which describes the dual relationship between physical space and frequency space, is ubiquitous in Harmonic Analysis. In this talk, we are mainly concerned with its applications in unique continuation and control of solutions of PDEs. In particular, we focus on the Schrodinger equation with potentials and show that some variable coefficient versions of uncertainty principles play a key role. Finally, we review some recent progress on the Heisenberg uniqueness pair (HUP), which was first introduced by Hedenmalm and Montes-Rodriguez in 2011.

Time: Saturday, July 20, 2024, 15:30-16:30
Venue: Zheng Xin Building, Room 21

More information:
https://im.hit.edu.cn/2024/0515/c8389a344802/page.htm