

报告题目: Hölder stability of quantitative photoacoustic tomography based on partial data.

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时间: 2023-07-27 星期四 14:30-15:30

地点:光华楼东主楼1601室

报告摘要:

The talk is related to the inverse problem of reconstructing the diffusion and absorption coefficients of the diffusion equation from internal data in photo-acoustic imaging. I will show that the problem is Hölder stable in subregions close to the boundary where the internal information is available. The Hölder exponent converges to a positive constant independent of the subregion as the subregion contracts towards the boundary. I will also present several numerical tests that illustrate the theoretical results.

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