

Full-field photoacoustic tomography

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Abstract: Photoacoustic tomography (PAT) is a hybrid method of biomedical imaging. The object of interest is scanned with laser light. Due to the photoelastic effect, the object slightly expands. The expansion produces ultrasound signals propagating throughout the space. By measuring the external ultrasound signals, one aims to reconstruct the object's image. In this talk, I will discuss an emerging setup of PAT, called full-field PAT. I will present its mathematical problem and our approach.