

1108-35-266

**Dustin Steinhauer\*** (dsteinha@math.tamu.edu) and **Peter Kuchment**. *Stabilizing inverse problems by internal data.*

I will discuss various inverse problems that arise from hybrid methods in medical imaging. Some of these methods provide internal data, that is, certain functionals that give pointwise information from inside the object of interest. I will show how internal data can stabilize exponentially unstable inverse problems, and I will present uniqueness and stability results for various applications. Joint work with Peter Kuchment. (Received January 15, 2015)