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Linh V Nguyen* (languyen@uidaho.edu), Department of Mathematics, University of Idaho, 875 Perimeter Dr, MS 1103, Moscow, ID 83844, and **Leonid Kunyansky**. *Photoacoustic tomography in a cavity*.

Photoacoustic tomography (PAT) is a hybrid method of imaging. It combines the high contrast of optical tomography and high resolution ultrasound tomography. In this talk, we will discuss the problem of PAT in a cavity. Our solution employs the so-called dissipative time reversal technique. (Received September 10, 2016)