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**Kui Ren\*** ([ren@math.utexas.edu](mailto:ren@math.utexas.edu)), 2515 Speed Way, C1200, RLM 8.100, Austin, TX 78712. *On an inverse coefficient problem in quantitative photoacoustic tomography: theory and numerical analysis.*

We present in this talk some mathematical and computational results for an inverse coefficient problem in quantitative photoacoustic tomography aiming at reconstructing coefficients in linear transport equations with interior data. In simplified settings, we show some analytical reconstruction methods. (Received August 01, 2013)