

1125-35-1587      **John C Schotland\*** ([schotland@umich.edu](mailto:schotland@umich.edu)). *Inverse Transport and Acousto-Optic Imaging*.

We consider the inverse problem of recovering the optical properties of a highly-scattering medium from acousto-optic measurements. Using such measurements, we show that the scattering and absorption coefficients of the radiative transport equation can be reconstructed with Lipschitz stability by means of algebraic inversion formulas. This is joint work with Francis Chung. (Received September 18, 2016)