SHARI MOSKOW, Drexel University, Philadelphia, PA Convergence of the inverse Born series for the Calderon problem

We analyze the inverse Born series for solving the inverse conductivity problem. In previous work the inverse series was used to develop fast image reconstruction algorithms in optical tomography. Here we study its use in EIT and characterize the convergence and stability in this context. We demonstrate its effectiveness with numerical reconstructions.

This is joint work with S. Arridge and J. Schotland.