Meeting: 999, Nashville, Tennessee, SS 9A, Special Session on Inverse Problems

999-35-137 **Allan Greenleaf*** (allan@math.rochester.edu), Dept. of Mathematics, Univ. of Rochester, Rochester, NY 14627, **Matti Lassas**, Institute of Mathematics, Box 1100, Helsinki University of Technology, FIN-02015 Espoo, Finland, and **Gunther Uhlmann**, Dept. of Mathematics, University of Washington, Seattle, WA 98195. *Failure of uniqueness in the inverse conductivity problem.*

We construct many (singular) anisotropic conductivities in dimensions greater than or equal to three which have the same Dirichlet-to-Neumann map as a constant isotropic conductivty. (Received August 19, 2004)