

1023-58-1401

**Gunther Uhlmann\*** ([gunther@math.washington.edu](mailto:gunther@math.washington.edu)), Department of Mathematics, University of Washington, Box 354350, Seattle, WA 98195. *Travel Time Tomography and Lens Rigidity*.

We describe some recent results on the problem of determining the anisotropic index of refraction of medium from travel time information. (Received September 25, 2006)