

INdAM Workshop  
*Inverse Problems and Applications*

June 3–9, 2002 - Cortona, Italy  
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***Microlocal Methods for Anisotropic Materials***

Microlocal analysis has proven itself a valuable tool in the modeling of wave propagation in homogeneous and isotropic elastic and electromagnetic materials. This approach to modeling of such waves has also yielded successful methods in solving the associated inverse problems of estimating material parameters, such as elastic moduli, electrical permittivity, etc. In this talk, we will examine how microlocal analysis may be used to model wave propagation in anisotropic materials and the implications for the inverse problems.