1061-35-165   **Hart F Smith*** (`hart@math.washington.edu`), **Valeriy Brytik**, **Maarten Van de Hoop** and **Gunther Uhlmann**. *The elastic wave equation in media of limited smoothness.*

I will discuss joint work on the wave equation of linear, isotropic elasticity, in the case that the elastic moduli are of limited differentiability. Our key result governs the decoupling of the P and S components of the elastic waves. (Received April 12, 2010)