

SHANE COOPER (UNIVERSITY OF BATH, UK)

ASYMPTOTIC ANALYSIS OF STRATIFIED ELASTIC MEDIA
IN THE SPACE OF FUNCTIONS WITH BOUNDED DEFORMATION

We consider a heterogeneous elastic structure which is stratified in some direction (say x_1). We derive the limit problem under the assumption that the Lamé coefficients and their inverses weakly* converge to Radon measures. Our method applies also to linear second-order elliptic systems of partial differential equations, and in particular to the fully anisotropic heat equation. This is joint work with Michel Bellieud (Universite de Montpellier 2).