

Strong unique continuation property for the Lamé system with less regular coefficients

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Abstract

In this talk I would like to discuss the strong unique continuation property for the Lamé system

$$\operatorname{div}(\mu((\nabla u) + (\nabla u)^t) + \nabla(\lambda \operatorname{div} u) + \rho u = 0 \quad \text{in } \Omega \subset \mathbb{R}^n$$

with $n \geq 2$. Here we assume that μ is Lipschitz and λ, ρ are essentially bounded. Our proof relies on reducing the Lamé system and on suitable Carleman estimates.