Research

Colloquium

Doubling inequalities for the Lame system with rough coefficients

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摘　要：

In this talk we study the local behavior of a solution to the Lame system when the Lame coefficients λ and μ satisfy thatμis Lipschitz and λ is essentially bounded in dimension n>1. One of the main results is the local doubling inequality for the solution of the Lame system. This is a quantitative estimate of the strong unique continuation property. Our proof relies on Carleman estimates with carefully chosen weights. Furthermore, we also prove the global doubling inequality, which is useful in some inverse problems.