

ASYMPTOTIC BEHAVIOR OF LAMÉ'S SYSTEM IN LARGE SIZE NONCYLINDRICAL DOMAINS

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I will talk about the large-time behavior of the solution of the parabolic Lamé system defined in noncylindrical domains. As the time t increases the cross-sections become very large in some directions. We establish different rates of convergence according to the size of the cross-sections. The limit problem is a Lamé system defined on unbounded domains where some particular cases can be handled to find the limit solution explicitly. This is a joint work with S. Harkat.