



北京理工大学

数学与统计学院学术报告

Controllability of Hyperbolic Systems

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摘要: In this talk, I will review results on the null-controllability, exact controllability of hyperbolic systems in one dimensional space for the optimal time. Both time-independent and time-dependent coefficients are discussed. Interesting and surprising phenomena occur. There is a finite gap for the optimal time in these cases even the time is involved only in the zero-order coefficients and even these coefficients are infinitely smooth. When the analyticity in time of the coefficients enters, the gap disappears. This is based on joint work with Jean-Michel Coron.

报告人简介: Hoai-Minh Nguyen is a Professor of Mathematics at Sorbonne University. His research interests include control theory, partial differential equations, geometric measure theory, functional spaces, cloaking, and metamaterials. He received his PhD from Sorbonne University under the supervision of Haim Brezis. Before joining Sorbonne University, he held positions at the Institute for Advanced Study, the Courant Institute, the University of Minnesota, and EPFL. He has received several distinctions for his work, including the Alfred P. Sloan Research Fellowship and the **Excellent Chair awarded by the FSMP.**

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