



复旦大学数学科学学院 数学综合报告会

报告题目: **Exact controllability of a cascade-structured wave system with only one control and minimal control time**

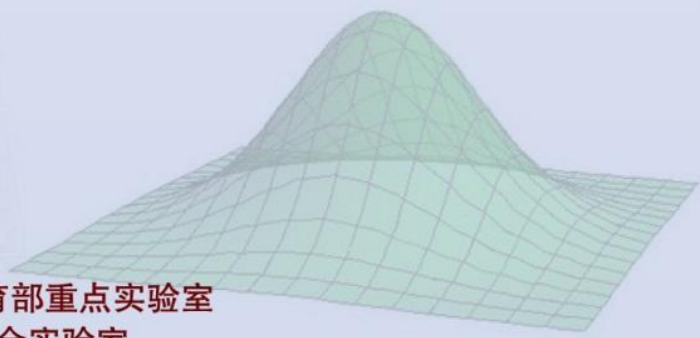
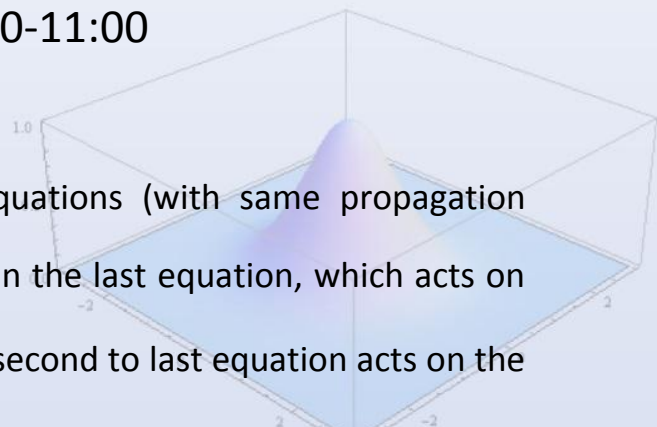
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报告时间: 2017-06-21 星期三 10:00-11:00

报告地点: 光华东主楼 1801

摘要: Consider a system of linear wave equations (with same propagation speed). The control acts as a source term only on the last equation, which acts on the second to last through a coupling term. The second to last equation acts on the third to last one via an other coupling term, and so on and so forth. In this talk, I will present a geometrical necessary and sufficient condition on the control time, the control set and the coupling sets for this system to be exactly controllable. In particular, I will express the minimal control time and describe the HUM operator associated with this control problem.



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