



## 复旦大学数学科学学院 数学综合报告会

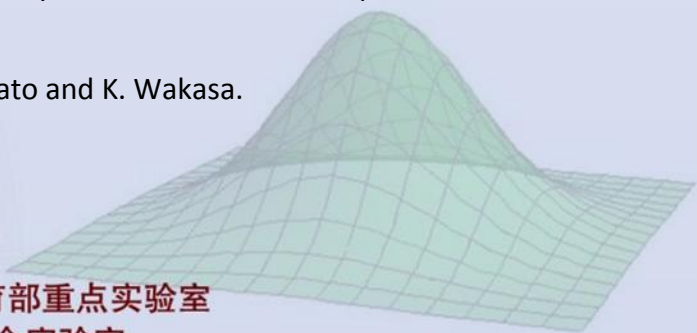
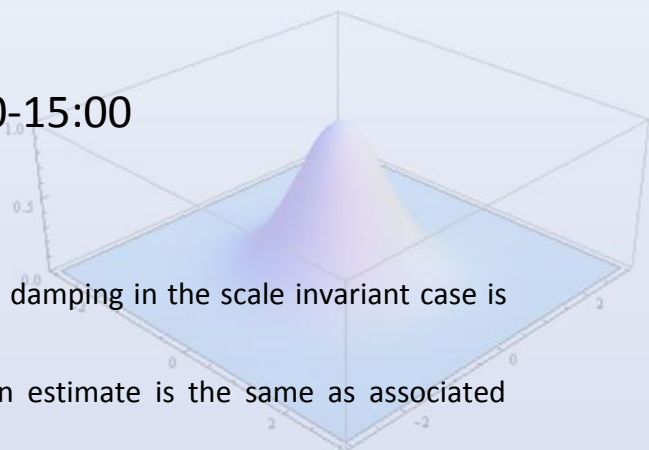
报告题目: **Lifespan estimates of solutions of semilinear wave equations with the scale invariant damping in one space dimension**

报告人: Prof. Hiroyuki Takamura  
(Tohoku University)

报告时间: 2019-01-14 星期一 14:00-15:00

报告地点: 光华东主楼 1501

摘要: Recently the critical constant of time-decaying damping in the scale invariant case is conjectured. Also it has been expected that the lifespan estimate is the same as associated semilinear heat equations if the constant is in "heat-like" domain. In this talk, I would like to point out that this is not true if the total integral of the initial position and speed vanish. In such a case, we have a new type of the lifespan estimates which is closely related to the non-damped case with a shifted dimension. This result is a joint work with M. Kato and K. Wakasa.



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