



复旦大学数学科学学院

数学综合报告会

报告题目: Henon-Lane-Emden conjecture and related Schrodinger systems

报告人: 张志涛 (中国科学院数学与系统科学研究院)

时间: 2024-12-12 星期四 10:00-11:00

地点: 光华楼东主楼1801

报告摘要:

We have proved Henon-Lane-Emden conjecture is true for space dimension $N=3$ by scaling invariant of the solutions and Sobolev embedding on S^{N-1} . Then we obtained new Liouville-type theorems and showed Henon-Lane-Emden conjecture for polyharmonic system holds in a new region, and also proved the generalized H_e-Lane-Emden conjecture in R^2 and R^3 . Moreover, we prove some new results on related Schrodinger systems.

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