

数学与系统科学研究院

计算数学所学术报告

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报告题目:

**Ground states of Bose-Einstein
condensates with higher order
interaction**

邀请人: 谢和虎 研究员

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报告地点: 科技综合楼三层

311 报告厅

Abstract:

We analyze the ground state of a Bose-Einstein condensate in the presence of higher-order interaction (HOI), modeled by a modified Gross–Pitaevskii equation (MGPE). Due to the appearance of HOI, the ground state structures become very rich and complicated. We establish the existence and non-existence results under different parameter regimes, and obtain their limiting behaviors and/or structures with different combinations of HOI and contact interactions.

欢迎大家参加！