核与重离子物理

Particle-number-conserving analysis of multiquasiparticle bands in ¹⁷⁷Lu

张振华¹,齐寿涛^{1,2},孙宝玺^{1,2},雷奕安¹,曾谨言¹

- ¹ State Key Lab of Nuclear Physics and Technology, School of Physics, Peking University, Beijing 100871, China
- ² Institute of Theoretical Physics, College of Applied Sciences, Beijing University of Technology, Beijing 100124, China

收稿日期 2009-3-25 修回日期 2009-4-27 网络版发布日期 2009-12-9 接受日期 2009-12-9 摘要

The experimental one-, three-, and five-quasiparticle bands in ¹⁷⁷Lu are analyzed by the particle-number conserving (PNC) method for treating the cranked shell model with pairing interaction, in which the blocking effects are taken into account exactly. The experimental moments of inertia are reproduced very well by PNC calculations with us free parameter.

关键词

multiquasiparticle band, blocking effect, moment of inertia, particle-number-conserving method

分类号

DOI:

通讯作者:

雷奕安 lei@phy.pku.edu.cn

作者个人主页:

张振华1: 齐寿涛1;2: 孙宝玺1;2: 雷奕安1: 曾谨言1

扩展功能

本文信息

- ▶ Supporting info
- ▶ <u>PDF</u>(2557KB)
- ▶ [HTML全文](OKB)
- ▶ 参考文献[PDF]
- ▶参考文献

服务与反馈

- ▶把本文推荐给朋友
- ▶加入我的书架
- ▶ 加入引用管理器
- ▶引用本文
- ▶ Email Alert

相关信息

▶ 本刊中 包含"

multiquasiparticle band, blocking effect, moment of inertia, particle-numberconserving method

"的 相关文章

▶本文作者相关文章

- · 张振华
- . 齐寿涛
- 孙宝玺
- 44 115 15
- 雷奕安
- · 曾谨言