原子核物理评论 2009 26 (Suppl): 59-63 ISSN: 1007-4627 CN: 62-1131/O4

Proceedings of the 3rd China-Japan-Korea Hardron and Nuclear Physics 2008 Symposium

Shell model Study of Neutron rich Λ hypernucleus $^{10}_{\Lambda}$Li

A.Umeya, T.Harada

(Research Center for Physics and Mathematics, Osaka Electro Communication University, Neyagawa, Osaka, 572 8530, Japan)

收稿日期 修回日期 网络版发布日期 接受日期

摘要

We investigate a Σ mixing probability of a neutron rich Λ hypernucleus 10ΛLi by using microscopic shell model calculations considering a Λ Σ coupling in the first order perturbation. The theoretical Σ mixing probability in 10ΛLi is found to be about 0.48%, due to the appearance of multi configuration Σ Nuclear excited states which can be strongly coupled with the Λ ground state in 10ΛLi.

关键词 hypernuclei neutron rich shell model

分类号

DOI:

通讯作者:
u-atusi@isc.osakac.ac.jp
作者个人主页: A.Umeya; T.Harada