

核与重离子物理

### Structural evolution of the intruder band in $^{118}\text{Sn}$

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收稿日期 2008-12-19 修回日期 2009-4-27 网络版发布日期 2009-9-11 接受日期 2009-9-11

摘要

Excited states of the positive-parity intruder band in  $^{118}\text{Sn}$  have been studied via the  $^{116}\text{Cd}$  ( $^7\text{Li}$ ,  $1p4n$ ) reaction at  $^7\text{Li}$  energy of 48 MeV using techniques of in-beam  $\gamma$ -ray spectroscopy. This intruder band has been observed up to 7187 keV with spin ( $16^+$ ). The structural evolution of this intruder band with increasing angular momentum has been discussed in terms of the aligned angular momentum and the ratio of the E-Gamma Over Spin (E-GOS) curve.

关键词 [intruder band](#), [quasiparticle alignment](#), [structural evolution](#)

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