

Parallel talk

Lattice results on nucleon/roper properties

Huey-Wen Lin

Jefferson Laboratory, 12000 Jefferson Avenue, Newport News, VA 23606, USA

收稿日期 2009-8-7 修回日期 网络版发布日期 2009-11-11 接受日期 2009-11-11

摘要

In this proceeding, I review the attempts to calculate the Nucleon resonance (including Roper as first radially excited state of nucleon and other excited states) using lattice quantum chromodynamics (QCD). The latest preliminary results from Hadron Spectrum Collaboration (HSC) with  $m_\pi \approx 380$  MeV are reported. The Sachs electric form factor of the proton and neutron and their transition with the Roper at large  $Q^2$  are also updated in this work.

关键词 [nucleon excited spectroscopy, electric and magnetic form factor, transposition form factor](#)

分类号

DOI:

通讯作者:

Huey-Wen Lin [hwlin@jlab.org](mailto:hwlin@jlab.org)

作者个人主页:

Huey-Wen Lin

扩展功能

本文信息

- ▶ [Supporting info](#)
- ▶ [PDF](#) (310KB)
- ▶ [\[HTML全文\]](#) (0KB)
- ▶ [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 “nucleon excited spectroscopy, electric and magnetic form factor, transposition form factor” 的 相关文章](#)
- ▶ 本文作者相关文章
- [Huey-Wen Lin](#)