

Isospin symmetry breaking

Physics of Hadrons

Degrees of Freedom



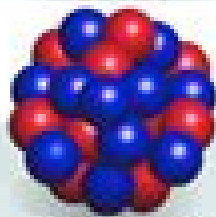
quarks, gluons



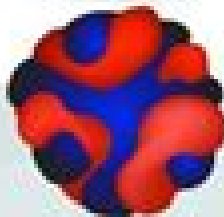
constituent quarks



baryons, mesons



protons, neutrons



nucleonic densities
and currents



collective coordinates

Energy (MeV)

$$m_u \neq m_d$$

$$q_u \neq q_d$$

940

neutron mass

$$m_n \neq m_p$$

$$q_n \neq q_p$$

140

pion mass

$$m_{\pi^\pm} \neq m_{\pi^0}$$

$\pi - \eta - \eta'$ and $\rho - \omega$ exchanges

All realistic NN interactions contain charge dependent (CD) and charge symmetry breaking (CSB) components

$$a_{pp}^N = -17.3 \pm 0.4 \text{ fm}$$

$$a_{nn}^N = -18.8 \pm 0.3 \text{ fm}$$

$$a_{np}^N = -23.77 \pm 0.09 \text{ fm}$$

$$r_{pp}^N = 2.85 \pm 0.04 \text{ fm}$$

$$r_{nn}^N = 2.75 \pm 0.11 \text{ fm}$$

$$r_{np}^N = 2.75 \pm 0.05 \text{ fm}$$

$1S_0$

1.12

vibrational
state in tin

0.043

rotational
state in uranium

Many realistic *effective* interactions used in CI and DFT studies contain isovector and isotensor CD and CSB components, in addition to Coulomb

Physics of Nuclei

Symmetry Properties Of Nuclei

Rosina Ehmann



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Table of Contents Symmetry Properties Of Nuclei

1. Understanding the eBook **Symmetry Properties Of Nuclei**
 - The Rise of Digital Reading **Symmetry Properties Of Nuclei**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Symmetry Properties Of Nuclei**
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an **Symmetry Properties Of Nuclei**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Symmetry Properties Of Nuclei**
 - Personalized Recommendations

- Symmetry Properties Of Nuclei User Reviews and Ratings
- Symmetry Properties Of Nuclei and Bestseller Lists
- 5. Accessing Symmetry Properties Of Nuclei Free and Paid eBooks
 - Symmetry Properties Of Nuclei Public Domain eBooks
 - Symmetry Properties Of Nuclei eBook Subscription Services
 - Symmetry Properties Of Nuclei Budget-Friendly Options
- 6. Navigating Symmetry Properties Of Nuclei eBook Formats
 - ePub, PDF, MOBI, and More
 - Symmetry Properties Of Nuclei Compatibility with Devices
 - Symmetry Properties Of Nuclei Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Symmetry Properties Of Nuclei
 - Highlighting and Note-Taking Symmetry Properties Of Nuclei
 - Interactive Elements Symmetry Properties Of Nuclei
- 8. Staying Engaged with Symmetry Properties Of Nuclei
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Symmetry Properties Of Nuclei
- 9. Balancing eBooks and Physical Books Symmetry Properties Of Nuclei
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Symmetry Properties Of Nuclei
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Symmetry Properties Of Nuclei
 - Setting Reading Goals Symmetry Properties Of Nuclei
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Symmetry Properties Of Nuclei
 - Fact-Checking eBook Content of Symmetry Properties Of Nuclei

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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