

Electromagnetic Sum Rules in Few-Quark Systems

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Abstract. The sum rules for $M1$, $E1$, and $E2$ absorption are applied to the description of the electromagnetic excitation of the nucleon resonances. The theoretical strength is calculated using the constituent-quark model and compared with the experimental integrated cross sections. The results show that it is possible to describe, at least qualitatively, the distribution of the macroscopic strength. The influences of retardation effects for the $E1$ case are also analyzed.

1 Introduction

The nucleon has a complicated excitation spectrum, which is observed mainly in meson reactions. Many resonance states are also coupled to the photon channel: In fact some of them give rise to large enhancements in the total photoabsorption cross section [1], which correspond to the production of the $\Delta_{132}(1232)$, $N_{132}(1520)$, and $N_{132}(1680)$ resonances through $M1$, $E1$, and $E2$ excitations, respectively. The baryon excited states are direct manifestations of the nucleon internal structure and have been described successfully in the framework of the quark model [2, 3, 4]. The photoexcitation of these nucleon resonances on nuclei is presumably strongly affected by the internal degrees of freedom of the nucleon. Unfortunately, experimental data exist only for the deuteron and a few other nuclei and do not cover the whole resonance region, but they will be available in the near future. It is therefore worthwhile to investigate the photoexcitation mechanism of the nucleon in terms of its constituents, in view of a future application to more complex systems.

The electromagnetic excitation of the nucleon resonances has been studied in the meson production channel, obtaining detailed informations on the transition form factors [5]. From the theoretical point of view, the elementary coupling to the nucleon constituents has been taken into account in order to describe these excitations, especially in the Δ region [6, 7, 8, 9]. A systematic analysis of all the photoexcitation processes has been performed by calculating the helicity amplitudes by means of the constituent-quark model (CQM) [10, 11]: The theoretical results are in fair agreement with the data as far as the signs and relative intensities of the amplitudes are concerned; however, there usually is an underestimate of the transition cross sections by a factor ≈ 2 .

On the other hand, the electromagnetic transitions of nuclei have been extensively studied using sum rules [12, 13, 14], from which many informations on

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Table of Contents Few Body Systems Electromagnetic Inter

1. Understanding the eBook Few Body Systems Electromagnetic Inter
 - The Rise of Digital Reading Few Body Systems Electromagnetic Inter
 - Advantages of eBooks Over Traditional Books
2. Identifying Few Body Systems Electromagnetic Inter
 - 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 Few Body Systems Electromagnetic Inter
 - User-Friendly Interface
4. Exploring eBook Recommendations from Few Body Systems Electromagnetic Inter
 - Personalized Recommendations
 - Few Body Systems Electromagnetic Inter User Reviews and Ratings
 - Few Body Systems Electromagnetic Inter and Bestseller Lists

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