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photon-nucleon scattering the spin dependent structure functions g_1 and g_2 are defined through the imaginary part of the forward Compton scattering amplitude.

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A CURSORY INTRODUCTION TO SPIN STRUCTURE JOSH GENAUER Abstract. In our brief summary paper, we give the basic algebraic definitions of $Spin(V)$ and $Spin_c(V)$, compute $Spin(\mathbb{R}^n)$ for small n , and describe some of $Spin^c$'s elementary properties, most importantly that it is the non-trivial double cover of $SO(V)$.

A CURSORY INTRODUCTION TO SPIN STRUCTURE

2 A. Spin and the proton spin problem Spin plays an essential role in particle interactions and the fundamental structure of matter, ranging from the

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The Spin Structure of the Nucleon Werner Vogelsangl RIKEN-BNL Research Center and BNL Nuclear Theory, Brookhaven National Laboratory, Upton, NY 11973, U.S.A. 1 Introduction For many years now, spin has played a very prominent role in QCD.

The Spin Structure of the Nucleon - a passion for discovery

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The DIS spin structure function experiments, with kinematic ranges, and structure functions measured. The superscript d refers to the deuteron, and the dates are for publication times. ...

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1 Spin Structure Functions: Introduction One of the most fundamental properties of the nucleon is its spin. Spin degrees of freedom allow access to information about the structure and interactions of hadrons which would

Precision Measurement of the Spin Structure Functions of

The transverse spin structure of the nucleon Mauro Anselmino, ... distribution functions (TMDs) Space dependent distribution functions Exploring the transverse structure of the nucleon (not only spin) orbiting quarks? b (talk by M. Burkardt) xP P.... beyond the longitudinal structure which is ... unpolarized pdf helicity distributions .

The transverse spin structure of the nucleon

The Spin Structure of the Nucleon 3 Also Ref. [91] presents a detailed review of the potential contribution of the Relativistic Heavy Ion Collider (RHIC) to field of nucleon spin structure.

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Spin systems arise naturally in several contexts, including the theory of quantum spin systems ([BR], section 6.2), and in the theory of quantum computing (especially, systems involving a large or infinite number of qubits).

THE STRUCTURE OF SPIN SYSTEMS - UCB Mathematics

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Andr  Haefliger found necessary and sufficient conditions for the existence of a spin structure on an oriented Riemannian manifold (M,g) . The obstruction to having a spin structure is a certain element $[k]$ of $H^2(M, \mathbb{Z})$. For a spin structure the class $[k]$ is the second Stiefel-Whitney class $w_2(M) \in H^2(M, \mathbb{Z})$ of M .

Spin structure - Wikipedia

A comprehensive survey of the most recent results from the field of quark-gluon structure of the nucleon, in particular how the spin of the nucleon is shared by its constituents.

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