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Berry Phase Effects on Electronic Properties Di Xiao Materials Science & Technology Division, Oak Ridge National Laboratory, Oak Ridge, TN 37831, USA

## **Berry Phase Effects on Electronic Properties**

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March APS Meeting, Baltimore, March 13 2006 Berry Phases and Curvatures in Electronic-Structure Theory David Vanderbilt Rutgers University

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## **Berry Phases in Electronic Structure Theory: Electric**

Electronic chirality and the Berry's phase are topics of central importance to graphene physics [1-3]. The direction of the isospin vector in monolayer graphene tracks the rotation of the electronic crystal momentum, resulting in a Berry's phase of  $[4,5]$ . By contrast, the isospin in bilayer graphene rotates twice as fast, resulting in a Berry's phase

## **Visualizing Electronic Chirality and Berry Phases in**

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## **(Epub Kindle) Berry Phases in Electronic Structure Theory**

Non-adiabatic Berry phases for periodic Hamiltonians A thesis submitted for the degree of Doctor of Philosophy in Physics in the University of Canterbury by David Jeffrey Moore 9' PHYSICAL SCIENCES LIBRARY THESIS Abstract A method for the calculation of Berry phases for periodic, but not necessarily adiabatic, Hamiltonians is reported. This method is based on a novel factorisation of the ...

## **Non-adiabatic Berry phases for periodic Hamiltonians**

Berry phases of Bloch electrons ENS Lyon, 9 December 2009 Joel Moore University of California, Berkeley, and Lawrence Berkeley National Laboratory

## **Berry phases of Bloch electrons - Page d'accueil du site**

phase) or topological phase (with nonzero Berry phase). Due to its topological feature, the Berry phase is invariant under a large class of continuous transformations.

### **Introduction to Topological Phases and Electronic**

A Berry phase is a phase angle (i.e., running between 0 and  $2\pi$ ) that describes the global phase evolution of a complex vector as it is carried around

### **Berry phases and curvatures - Rutgers Physics & Astronomy**

Electron energy spectrum and the Berry phase in a graphite bilayer G. P. Mikitik<sup>1</sup> and Yu. V. Sharlai<sup>1B</sup>.  
Verkin Institute for Low Temperature Physics and Engineering, Ukrainian Academy of Sciences, Kharkov  
61103, Ukraine

### **Electron energy spectrum and the Berry phase in a graphite**

Berry's phase (1, 2) is an example of holonomy, the extent to which some variables change when other variables or parameters characterizing a system return to their initial values (3, 4).

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