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John Cook^{1,2,3}, Dana Nuccitelli^{2,4}, Sarah A Green⁵, Mark Richardson⁶, Bärbel Winkler², Rob Painting², Robert Way⁷, Peter Jacobs⁸ and Andrew Skuce^{2,9}

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Author e-mails

andor.kormanyos@uni-konstanz.de guido.burkard@uni-konstanz.de

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Afiliação de los autores

¹ Department of Physics, University of Konstanz, D-78464 Konstanz, Germany
 ² Institute for Theoretical Physics, University of Regensburg, D-93040 Regensburg, Germany

³ Department of Physics, Lancaster University, Lancaster LA1 4YB, UK

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Abstract

Introduction

2. Lattice parameters, bandstructure calculations and vibrational properties

3. Band-edge energy differences and spin-splittings

4. VB width $D_{
m vb}$

5. Effective model at the K and -K points

 6. Effective models at the Q (a.k.a. Λ) point

7. Effective models at the Γ point

8. The *M* point: spin-orbit splitting of the Van Hove singularity

9. Conclusions

Acknowledgments

Appendix A.: Seven-band k.p

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Vídeos



Figure 5.

Final BLENDER rendered view of the H I iso-intensity contours in HCG 91 observed by the VLA (first exported to X3D using MAYAVI) generated using the PYTHON script provided as supplementary material to this article. An animation of this figure is available.

Figuras Interativas



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- ▲ Allègre C et al 2012 No need to panic about global warming Wall Street Journal (http://online.wsj.com/article/SB10001424052970204301404577171531838421366.ht accessed 14 September 2012)
- Anderegg W R L, Prall J W, Harold J and Schneider S H 2010 Expert credibility in climate change Proc. Natl Acad. Sci. USA 107 12107-9 Crossref
- Boykoff M T 2007 Flogging a dead norm? Newspaper coverage of anthropogenic climate change in the United States and United Kingdom from 2003 to 2006 Area 39 470-81 Crossref

↑ Boykoff M T and Boykoff J M 2004 Balance as bias: global warming and the US prestige

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$$H_0 = \sum_{\lambda,i} E_i^{\lambda} a_{\lambda,i}^{\dagger} a_{\lambda,i} + \sum_{Q} \hbar \omega_Q \left(B_Q^{\dagger} B_Q + \frac{1}{2} \right)$$
(1)

as the non-interacting parts of the carrier-photon system, where $a^{\dagger}_{A,i}$ and $a_{A,i}$ are the creation and annihilation operators for electronic states, respectively. The corresponding operators for the photon, with a general mode index Q and energy $\hbar \omega_Q$, are B^{\dagger}_Q and B_Q . The carrier-carrier interaction is given by the Coulomb term

$$H_{\rm C} = \sum_{\lambda,\lambda'} \sum_{i,j,k,l} V_{i,j;k,l}^{\lambda,\lambda'} a_{\lambda,i}^{\dagger} a_{\lambda',j}^{\dagger} a_{\lambda',k} a_{\lambda,l} \qquad (2)$$

and the light-matter interaction is given by the dipole Hamiltonian

$$H_{\rm D} = -\sum_{\lambda} \sum_{Q,i,j} [F^Q_{\lambda;i,j} B_Q + (F^Q_{\bar{\lambda};j,i})^* B^*_Q] a^*_{\lambda,i} a_{\bar{\lambda},j}.$$
(3)

The interaction-matrix elements in these are

$$V_{i,j;k,l}^{\lambda,\lambda'} = \frac{e^2}{4\pi\varepsilon} \int d^3r d^3r' \frac{\xi_{\lambda,l}^*(\mathbf{r}) \,\xi_{\lambda',j}^*(\mathbf{r}') \,\xi_{\lambda',k}(\mathbf{r}') \,\xi_{\lambda,l}(\mathbf{r})}{|\mathbf{r} - \mathbf{r}'|},$$

$$F_{\lambda;i,j}^{Q} = i\mathcal{E}_{Q} d_{i,j}^{\lambda,\tilde{\lambda}} \cdot \int d^3r \,\xi_{\lambda,l}^*(\mathbf{r}) \, u_{Q}(\mathbf{r}) \,\xi_{\tilde{\lambda},j}(\mathbf{r}),$$
(4)

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Quantifying the consensus on anthropogenic global warming in the scientific literature

John Cook^{1,2,3}, Dana Nuccitelli^{2,4}, Sarah A Green⁵, Mark Richardson⁶, Bärbel Winkler², Rob Painting², Robert Way⁷, Peter Jacobs⁸ and Andrew Skuce^{2,9}

1 Global Change Institute, University of Queensland, Australia

- ² Skeptical Science, Brisbane, Queensland, Australia
- 3 School of Psychology, University of Western Australia, Australia
- 4 Tetra Tech, Incorporated, McClellan, CA, USA
- 5 Department of Chemistry, Michigan Technological University, USA
- 6 Department of Meteorology, University of Reading, UK
- 7 Department of Geography, Memorial University of Newfoundland, Canada
- 8 Department of Environmental Science and Policy, George Mason University, USA
- 9 Salt Spring Consulting Ltd, Salt Spring Island, BC, Canada

E-mail: j.cook3@uq.edu.au

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