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Electronic excitations and deexcitations in narrow-gap carbon nanotubes

C W Chiu et al 2007 *Nanotechnology* **18** 435401 (7pp) doi:10.1088/0957-4484/18/43/435401

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C W Chiu and M F Lin
Department of Physics, National Cheng Kung University, Taiwan, Republic of China
E-mail: mflin@mail.ncku.edu.tw

Abstract. The band structures play an important role in excitations and deexcitations in narrow-gap carbon nanotubes. The temperature-induced free carriers exist in the low energy states and cause the low-frequency intraband and interband e-h excitations. Such kinds of excitations could be the effective decay channels for the excited states of the lowest conduction and valence bands. The Coulomb decay rates are sensitive to the charges in radius, wavevector, temperature and deexcitation mechanisms. Those with interband decay increase as the radius increases, while the others with intraband decay exhibit the opposite behavior except at low temperature. The decay rates are dominated by the intraband deexcitations. For the conduction-band states, the decay rate quickly rise and then decline with increasing temperature, and a linear increase appears as the temperature further increases. The wavevector dependence, on the other hand, is weak. As to the valence-band states, the decay rates drop rapidly when the initial states deviate from the band-edge state, and they increase as the temperature becomes higher. Moreover, the decay rates of narrow-gap carbon nanotubes contrast sharply with those of metallic and moderate-gap ones. For example, they are the largest at room temperature. The femtosecond time-resolved spectroscopies could be utilized to verify the predicted results.

Print publication: Issue 43 (31 October 2007)
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Electronic excitations and deexcitations in narrow-gap carbon nanotubes

C W Chiu and M F Lin

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E-mail: mflin@mail.ncku.edu.tw

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The band structures play an important role in excitations and deexcitations in narrow-gap carbon nanotubes. The temperature-induced free carriers exist in the low energy states and cause the low-frequency intraband and interband e-h excitations. Such kinds of excitations could be the effective decay channels for the excited states of the lowest conduction and valence bands. The Coulomb decay rates are sensitive to the changes in radius, wavevector, temperature and deexcitation mechanisms. Those with interband decay increase as the radius increases, while the others with intraband decay exhibit the opposite behavior except at low temperature. The decay rates are dominated by the intraband deexcitations. For the conduction-band states, the decay rates quickly rise and then decline with increasing temperature, and a linear increase appears as the temperature further increases. The wavevector dependence, on the other hand, is weak. As to the valence-band states, the decay rates drop rapidly when the initial states deviate from the band-edge state, and they increase as the temperature becomes higher. Moreover, the decay rates of narrow-gap carbon nanotubes contrast sharply with those of metallic and moderate-gap ones. For example, they are the largest at room temperature. The femtosecond time-resolved spectroscopies could be utilized to verify the predicted results.

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Shape-resonance-induced long-range molecular Rydberg states

Edward L Hamilton *et al* 2002 *J. Phys. B: At. Mol. Opt. Phys.* **35** L199-L206 doi:10.1088/0953-4075/35/10/102

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Edward L Hamilton¹, Chris H Greene¹ and H R Sadeghpour²

¹Department of Physics and JILA, University of Colorado, Boulder, CO 80309-0440, USA
²ITAMP, Harvard-Smithsonian Center for Astrophysics, 60 Garden Street, Cambridge, MA 02138, USA

Abstract. When an excited atomic electron interacts with a neutral perturbing atom or molecule that possesses a shape resonance, it generates a characteristic class of Born-Oppenheimer potential curves that rise with internuclear distance. We document this effect, and predict the existence of a diverse class of stable, strongly bound atom-atom and atom-molecule states that result from this phenomenon. For the specific case in which Rb is the perturbing atom, we show that such states should be observable in the spectroscopy of an ultracold gas or condensate.

Print publication: Issue 10 (28 May 2002)
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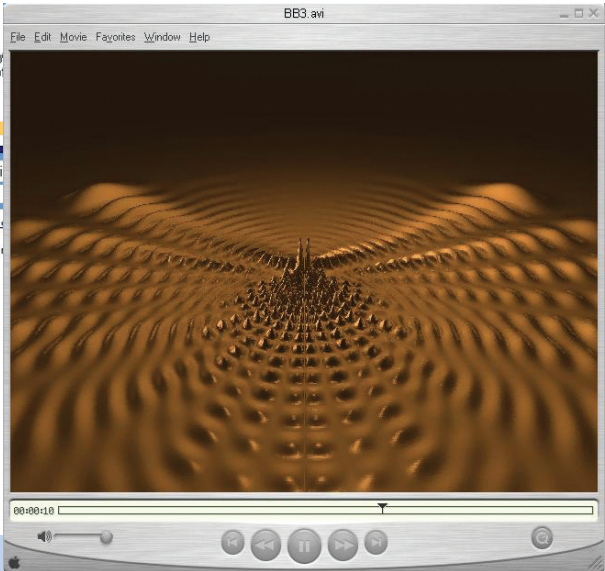
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A Tabata *et al* 1990 *J. Phys. D: Appl. Phys.* **23** 316-320 doi:10.1088/0022-3727/23/3/008

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[A Tabata](#), [S Fujii](#), [Y Suzuki](#), [T Mizutani](#) and [M Ieda](#)
Dept. of Electr. Eng., Nagoya Univ., Japan

Abstract. The XPS of $a\text{-Si}_x\text{C}_{1-x}\text{H}$ films prepared by the plasma CVD method from a mixture of silane and methane gases were measured. The separation of the XPS spectra into several peaks revealed the nature of the chemical bonds of silicon and carbon atoms. The coordination of the carbon atom was diamond-like and fourfold in silicon-rich films, while the graphitic threefold coordination was dominant in carbon-rich films. The effect of dilution gas was also investigated by using argon and hydrogen as dilution gases. Films prepared from hydrogen-diluted gas contained more carbon atoms with fourfold coordination than those prepared from argon-diluted gas.

Print publication: Issue 3 (14 March 1990)

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1. Relic density of dark matter in the next-to-minimal supersymmetric standard model

G Bélanger, F Boudjema, C Hugonie, A Pukhov and A Semenov
Journal of Cosmology and Astroparticle Physics **2005** No 09 (September 2005) 001
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We present a code for computing the relic density of dark matter in the next-to-minimal supersymmetric standard model (NMSSM). Dominant corrections to the Higgs masses are calculated with NMHDECAY as well as theoretical and collider constraints. All neutralino annihilation and coannihilation processes are then computed with an extended version of micrOMEGAs, taking into account higher order corrections to Higgs vertices. We explore the parameter space of the NMSSM and consider in particular the case of a bino LSP, of a mixed bino-higgsino LSP and of a singlino LSP. As compared to the case for the MSSM, neutralino annihilation is often more efficient, as it can take place via (additional) Higgs resonances as well as annihilation into light Higgs states. Models with a large singlino component can be compatible with WMAP constraints.

2. New allowed mSUGRA parameter space from variations of the trilinear scalar coupling A_0

Luisa Sabrina Stark, Petra Häfliger, Adrian Biland and Felicitas Pauss, Felicitas Pauss
Journal of High Energy Physics **2005** No 08 (August 2005) 059
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In minimal Supergravity (mSUGRA) models the lightest supersymmetric particle (assumed to be the lightest neutralino χ^0_1) provides an excellent cold dark matter (CDM) candidate. The supersymmetric parameter space is significantly reduced, if the limits on the CDM relic density $\Omega_{\text{CDM}} h^2$, obtained from WMAP data, are used. Assuming a vanishing trilinear scalar coupling A_0 and fixed values of $\tan \beta$, these limits result in narrow lines of allowed regions in the m_0 - $m_{1/2}$ plane, the so called WMAP strips. In this analysis the trilinear coupling A_0 has been varied within ± 4 TeV. A fixed non-vanishing A_0 value leads to a shift of the WMAP strips in the m_0 - $m_{1/2}$ plane.

3. High-energy cosmic antiprotons from Kaluza-Klein dark matter

Torsten Bringmann
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