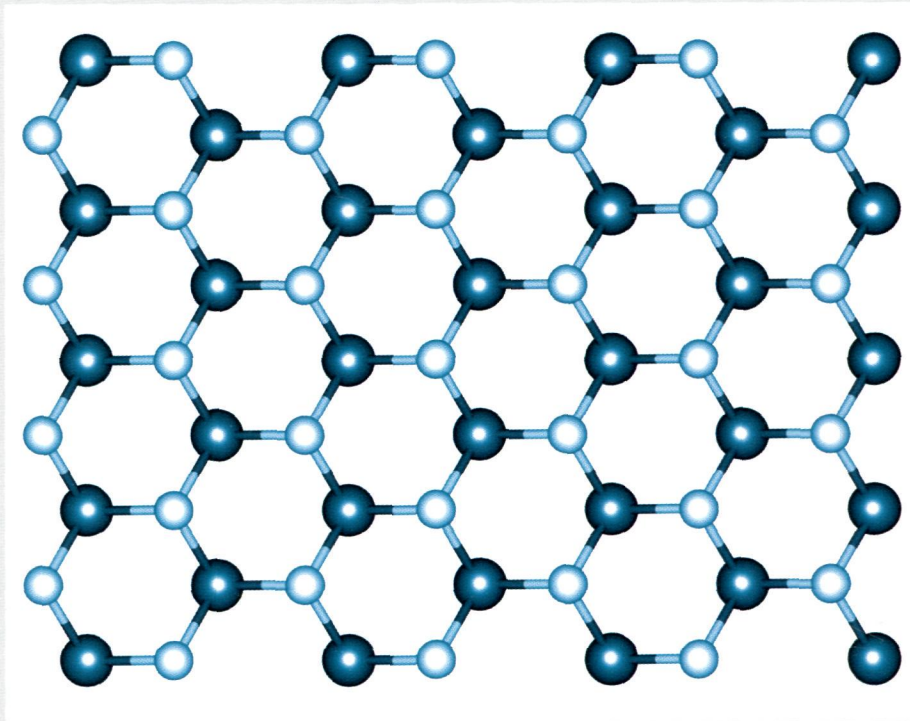


# Journal of Physics

## Condensed Matter

Volume 25 Number 31 7 August 2013



### FAST TRACK COMMUNICATIONS

- 312201** **Joined edges in MoS<sub>2</sub>: metallic and half-metallic wires**  
Duy Le and Talat S Rahman
- 312202** **Evidence for fully gapped strong coupling s-wave superconductivity in Bi<sub>4</sub>O<sub>4</sub>S<sub>3</sub>**  
P Srivastava and S Patnaik

### FURTHER CONTRIBUTION TO SPECIAL SECTION ON ULTRAFAST AND NONLINEAR OPTICS IN CARBON NANOMATERIALS

- 314201** **Transient charge and energy balance in graphene induced by ultrafast photoexcitation**  
Junhua Zhang, Jörg Schmalian, Tianqi Li and Jigang Wang

### PAPERS

#### NANOSTRUCTURES AND NANOELECTRONICS

- 315301** **Systematic STM and LEED investigation of the Si/Ag(110) surface**  
S Colonna, G Serrano, P Gori, A Cricienti and F Ronci

#### SOLID STRUCTURE AND LATTICE DYNAMICS

- 315401** **On the mobility of vacancy clusters in reduced activation steels: an atomistic study in the Fe–Cr–W model alloy**  
G Bonny, N Castin, J Bullens, A Bakaev, T C P Klaver and D Terentyev
- 315402** **Room temperature single-crystal diffuse scattering and *ab initio* lattice dynamics in CaTiSiO<sub>5</sub>**  
M J Gutmann, K Refson, M v Zimmermann, I P Swinson, A Dabkowski and H Dabkowska
- 315403** **Crystal structure of BaFe<sub>2</sub>Se<sub>3</sub> as a function of temperature and pressure: phase transition phenomena and high-order expansion of Landau potential**  
V Svitlyk, D Chernyshov, E Pomjakushina, A Krzton-Maziopa, K Conder, V Pomjakushin, R Pöttgen and V Dmitriev

#### ELECTRONIC STRUCTURE

- 315501** **The Be K-edge in beryllium oxide and chalcogenides: soft x-ray absorption spectra from first-principles theory and experiment**  
W Olovsson, L Weinhardt, O Fuchs, I Tanaka, P Puschnig, E Umbach, C Heske and C Draxl
- 315502** **The effect of lithium intercalation on the electronic structure of the ternary compound semiconductors ZrSe<sub>2-x</sub>S<sub>x</sub>**  
A Ghafari, C Janowitz and R Manzke

#### SUPERCONDUCTORS AND METALS

- 315701** **<sup>75</sup>As NMR study of overdoped CeFeAsO<sub>0.8</sub>F<sub>0.2</sub>**  
Damian Rybicki, Thomas Meissner, Grant V M Williams, Shen V Chong, Marc Lux and Jürgen Haase

#### SEMICONDUCTORS

- 315801** **Addition of Mn to Ge quantum dot surfaces—interaction with the Ge QD {105} facet and the Ge(001) wetting layer**  
C A Nolph, J K Kassim, J A Floro and P Reinke
- 315802** **Scattering in a quantum dot: the role of resonances**  
Sølve Selstø

(Continued on inside back cover)

MAGNETISM AND MAGNETIC MATERIALS

- 316001 Ferrimagnetism in  $\text{GdCo}_{12-x}\text{Fe}_x\text{B}_6$**   
L V B Diop, O Isnard, N R Lee-Hone, D H Ryan and J M Cadogan
- 316002 Origin of the decoherence of the extended electron spin state in Ti-doped  $\beta\text{-Ga}_2\text{O}_3$**   
F Mentink-Vigier, L Binet, D Gourier and H Vezin
- 316003 Spin configuration of magnetic multi-layers: effect of exchange, dipolar and Dzyalozhinski–Moriya interactions**  
A F Franco and H Kachkachi
- 316004 Magnetic and structural phase transitions in  $\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_{3-\delta}$  ( $0 \leq \delta < 0.3$ ) cobaltites**  
D V Karpinsky, I O Troyanchuk, L S Lobanovsky, A N Chobot, C Ritter, V Efimov, V Sikolenko and A L Kholkin
- 316005 Low temperature high magnetic field  $^{57}\text{Fe}$  Mössbauer study of kinetic arrest in Ta doped  $\text{HfFe}_2$**   
V Raghavendra Reddy, R Rawat, Ajay Gupta, Pallab Bag, V Siruguri and P Chaddah