

Poster Programme – Wednesday 15 December 2010

Local probe spectroscopy

P.2.01

Physical and optical properties of Sb_2O_3 - PbO - W_3O_{10} -10%M $_2\text{O}$ glasses (M=Li, Na et K)

M Baazouzi (University of Rennes 1, France)

P.2.02

Optical absorption of Er⁺³ doped Sb_2O_3 - NaO- ZnO glasses

M Hamzaoui (University of Rennes 1, France)

P.2.03

Cadmium chloro-antimonite glasses

M Yazid (University Biskra, France)

P.2.04

Uniaxial stress splitting studies of the 490.8 nm and 648 nm systems in diamond

B Green (University of Warwick, UK)

P.2.05

Simulated EPR parameters for P-containing point defects in diamond

J Goss (Newcastle University, UK)

P.2.06

Computational assessment of models for MuX: interactions between nitrogen and muonium in diamond

J Goss (Newcastle University, UK)

P.2.07

Vacancy defects in CdTe solar cell thin films

D J Keeble (University of Dundee, UK)

Surfaces and interfaces

P.2.08

Single molecule magnets on a gold surface: in-situ electrospray deposition, X-ray absorption and photoemission

J N O'Shea (University of Nottingham, UK)

P.2.09

Observation of surface states at the Cu(110)/electrolyte interface

P Weightman (University of Liverpool, UK)

P.2.10

The charge transfer interactions of a Ru(II) dye complex adsorbed on a Au(111) surface: resonant photoemission and x-ray absorption

A Britton (Nottingham University, UK)

P.2.11

Adsorption site determination using STM

Q Guo (University of Birmingham, UK)

P.2.12

Substitutional doping of graphite with nitrogen

J Gao (Nanoscale Physics Department, University of Birmingham, UK)

P.2.13

Epitaxial growth of AlNi quasicrystal films using AlCoNi(10000) as a growth template

T Decoster (University of Birmingham, UK)

P.2.14

How do (fluorescent) surfactants affect particle-stabilised emulsions?

J Thijssen (University of Edinburgh, UK)

P.2.15

Preparing and influencing a thermally driven molecular bi-stable switch by STM atomic manipulation

S Sakulsermsuk (Nanoscale Physics Research Laboratory, UK)

P.2.16

Surface terminations of periodic complex metallic alloys: relative surface energy calculations

E Gaudry (Institut Jean Lamour, France)

P.2.17

Understanding tensile strain in relaxed germanium epitaxial layers on (001) silicon substrates

J Halpin (University of Warwick, UK)

P.2.18

Two-impurity kondo effect on surface –magnetic field and temperature dependence-

E Minamitani (Osaka University, Japan)

P.2.19

The charge density of magnetic adatom lattices on metal surfaces

K Miwa (Osaka University, Japan)

P.2.20

Two dimensional exclusion process between rough interfaces

J Juntunen (University of Jyväskylä, Finland)

P.2.21

Oxygen-induced structural changes in the chiral Cu{531} Surface

A Cornish (University of Reading, UK)

P.2.22

Pinpointing erbium in erbium-silicon/silica light emitting nanostructures

R Jalilikashtiban (University of Warwick, UK)

P.2.23

Influence of oxygen pressure on properties of silicon doped zinc oxide thin films grown by pulsed laser deposition (PLD)

N F Saniee (University of Warwick, UK)

P.2.24

Surface magnetism in epitaxial MnSb films

J Aldous (University of Warwick, UK)

P.2.25

Effective hole mobility in relaxed and strained Ge Channel transistor

C A Casteleiro (University of Warwick, UK)

P.2.26

Structural characterisation of thin-film CrSb grown by MBE

C Burrows (University of Warwick, UK)

P.2.27

Sulfur passivation of a-plane InN surface electron accumulation

L Fishwick (University of Warwick, UK)

P.2.28

Probing magnetism in electrodeposited thin films of $\text{Co}_x\text{Ni}_y\text{Cu}_z$ using polarised neutron reflectivity

J F K Cooper (University of Cambridge, UK)

P.2.29

Interfacial free energy and stiffness at NaCl(100)-melt boundary

T Zykova-Timan (Cambridge University, UK)

P.2.30

Study on the interfaces between organic and inorganic semiconductor

A Rehman (Zhejiang University, China)

P.2.31

Nonlocal atomic manipulation with the STM

P Sloan (University of Bath, UK)

P.2.32

Optical properties of photonic crystals on finite thickness substrates

D Whittaker (University of Sheffield, UK)

P.2.33

Light emission from ultrathin organic films grown by in-vacuo electrospray deposition

R Cross (Aberystwyth University, UK)

Computer simulation of surfaces

P.2.34

Computation of the structure factor of transition liquid metal using the Harmer potential

A E Falegan (Federal University of Technology, Akure, Nigeria)

P.2.35

Study of porous materials signatures behaviour in dark field

S Bouhedja (University of Constantine, Algeria)

P.2.36

A new simulation method for characterization of mechanical properties of nanomaterials

S M Mahdi Gorjidoz (Allameh Tabatabaee, University of Tehran, Iran)

P.2.37

Beta-stabilisers in titanium

B Tegner (SUPA, School of Physics, University of Edinburgh, UK)

P.2.38

MD simulations of nanoscale iron pillars

C Healy (University of Edinburgh, UK)

P.2.39

Dependence of polarization on epitaxial strain in $(\text{Ba}_{0.70}\text{Sr}_{0.30})\text{TiO}_3$ ultrathin films from first-principles

S Bin-omran (King Saud University, Saudi Arabia)

P.2.40

The effect of random-edge defects on the band gap and edge-magnetisation of graphene nanoribbons

J Baldwin (University of York, UK)

P.2.41

Numerical modeling of the transient response of metal-semiconductor-metal photodetector using discrete fourier transform method

H Reza Mashayekhi (University of Guilan, Iran)

Self assembly at solid surfaces

P.2.42

A study of dynamic characterizations of GaAs/AlGaAs self-assembled quantum dot lasers

S M Mahdi Ghorgidooz (Physics Department, Islamic Azad University, Iran)

P.2.43

The effects of nonlinear gain and thermal carrier escape on dynamic characterizations of GaAs/InGaAs self-assembled quantum dot lasers

M Rahbar (Azad University, Iran)

P.2.44

Piezoresistance in carbon nanotubes

A Nogaret (University of Bath, UK)

P.2.45

Morphological templating of metastable calcium carbonates by the amino acid leucine

S Thompson (Diamond Light Source, UK)

P.2.46

Role of dispersion interaction on self-assembly of flat molecules on a metallic substrate

M Mura (King's College London, UK)

P.2.47

Three-dimensional measurements of composition changes in annealed InAs/GaAs quantum dots

A Wahra (University of Warwick, UK)

Energy materials

P.2.48

Electrodeposition and characterisation of ZnTe layers for application in CdTe based multi-layer graded bandgap solar cells

D Garba Diso (Sheffield Hallam University, UK)

P.2.49

Electrical transport and activation energy studies of the pseudobinary alloys of Al-Bi-Se AND Al-Bi-Te mixed systems

O S Samuel (Federal University of Technology, Nigeria)

P.2.50

Raman spectroscopy of thin- film silicon on woven polyester

H Lind (Heriot- Watt University, UK)

P.2.51

Limitations of the Maxwell relation in estimation of magnetocaloric effect in materials with a first-order phase transition

M Bratko (Imperial College London, UK)

Matter under extreme conditions

P.2.52

Ionic collisions in metallic lattices under transient current pulses

C Papageorgiou (National Technical University of Athens, Greece)

P.2.53

The influence of transient strain rate deformation on the microstructure of AA2024 aluminum alloy in the low temperature range

S M Mahdi Ghorgidooz (Islamic Azad University, Iran)

P.2.54

Effect of thermo-mechanical parameters on microstructure and mechanical properties of microalloyed steels

S M Mahdi Ghorgidooz (Islamic Azad University, Iran)

P.2.55

Hypervelocity impacts into graphite

S Latunde-Dada (AWE, UK)

P.2.56

An equation of state for titanium

G Cox (AWE, UK)

P.2.57

Simultaneous emissivity and temperature measurements on shock loaded tin

C Shenton-Taylor (AWE, UK)

P.2.58

Validation of equation of state and optical data: A comparison of modelling techniques for warm-dense metals.

S Richardson (AWE, UK)

Nanophysics at low temperatures

P.2.59

2-dimensional electrons and holes in a 40 nm thick silicon layer

D Tregurtha (University of Bath, UK)

P.2.60

Entangled-photon pair emission from a light-emitting diode

C Salter (University of Cambridge, UK)

P.2.61

Low-temperature transport in ultra-thin tungsten films grown by focused-ion-beam deposition

O Chiatti (London Centre for Nanotechnology, UK)

P.2.62

Nanomechanical resonators grown by focused-ion-beam deposition

H Wang (London Centre for Nanotechnology, UK)

P.2.63

Heterostructure nanowires for inelastic electron tunnelling spectroscopy

M Sourribes (University College London, UK)

P.2.64

Superconducting nanowires for quantum phase-slip devices

J Fenton (University College London, UK and NPL, UK)

P.2.65

Dynamical instabilities of an optomechanical system

S Abbs (University of Nottingham, UK)

Quantum solids and fluids

P.2.66

The application of shell models to the two-fluid energy cascade in helium turbulence

D Wacks (Newcastle University, UK)

P.2.67

Superfluid-insulator transition in ^4He films adsorbed on graphite

J Nyeki (Royal Holloway University of London, UK)

P.2.68

Interacting charged vortices in He-II at low temperatures

P Tompsett (University of Manchester, UK)

P.2.69

Charge transfer between epitaxial graphene and silicon carbide

S Kopylov (Lancaster University, UK)

Ultracold atoms

Please note that the Ultracold Atoms selection of posters has moved to the Tuesday session. All poster numbers will remain the same to ensure that they correspond with the printed abstract book.

Non-linear dynamics of complex systems

P.2.80

Noise induced phenomena in multi-thread excitable semiconductor neuron

A Nogaret (University of Bath, UK)

Solid state quantum condensates

P.2.81

Rotons in a hybrid Bose-Fermi system

T Taylor (University of Southampton, UK)

P.2.82

Polarisation dynamics, desynchronisation and spatial structure in a non-equilibrium polariton condensate

M O Borgh (University of Southampton, UK)

P.2.83

A terahertz emitter based on a polariton transition

M Kaliteevski (Durham University, UK)

P.2.84

Vortices in the microcavity polariton OPO

D Whittaker (University of Sheffield, UK)