

SAIP2014

Tuesday 08 July 2014

DPCMM1 - D Les 201 (10:00-10:40)

-Conveners: Volkmar Nolting

time	[id] title	presenter
10:00	[162] Pressure induced charge order collapse in Fe ₂ O ₃	Mr SIBANDA, Wisdom Nkosilathi
10:20	[194] Influence of Spark Plasma Sintering parameter on Cu-CNT composites for thermal management	Mr SULE, Rasidi

DPCMM1 - D Les 201 (11:10-12:10)

-Conveners: GIOvanni Hearne

time	[id] title	presenter
11:10	[2] Atomic scale simulation in the service of nuclear materials	Prof. GRIMES, Robin
11:30	[231] Field theory formulation for active network	Ms MEBWE PACHONG, Stanard
11:50	[263] Laser spectroscopy studies of the recrystallization of an amorphous layer in GaAs produced by argon ion implantation at ~77 K	Mr JAKATA, Kudakwashe

DPCMM1 - D Les 201 (14:00-15:40)

-Conveners: Eric Fullerton

time	[id] title	presenter
14:00	[325] Effects of Cr ³⁺ mol% on the structure and optical properties of the ZnAl ₂ O ₄ :Cr ³⁺ nanocrystals synthesized using sol-gel process	Mr MOTLOUNG, Setumo
14:20	[329] Nitrogen dioxide and Ammonia Gas Sensing by Tungsten Trioxide Film	Mr GOVENDER, Malcolm
14:40	[55] A Steady State Model For Interfacial Reaction And Binary Diffusion In Si-Pd System	Mr AKINTUNDE, Samuel

Wednesday 09 July 2014

DPCMM1 - D Les 201 (10:00-10:40)

-Conveners: Bryan Doyle

time	[id] title	presenter
10:20	[316] Effect of growth temperature on structural and luminescence properties of ZnO nanoparticles by Sol-Gel method	Mr UNGULA, Jatani

DPCMM1 (11:10-12:10)

-Conveners: Japie Engelbrecht

time	[id] title	presenter
11:10	[292] Unique magnetic properties in simple metals	Prof. PRINSLOO, Aletta

DPCMM1 - D Les 201 (14:00-15:40)

-Conveners: Emanuela Carleschi

time	[id] title	presenter
14:00	[383] Computational study of supported Pd catalyst for methane oxidation	Ms CHUMA, Moyahabo Hellen
14:20	[424] Study of superconducting gap in boron doped nanodiamond through differential resistance	Ms SANDERS, Kirsty
14:40	[452] Residual stress in polycrystalline thin Cr films deposited on fused silica substrates	Ms MUDAU, Z P
15:00	[147] Ion dose effect on sound velocity in ion-implanted CVD diamond studied using surface Brillouin scattering	Dr MATHE, Bhekumusa

Thursday 10 July 2014

DPCMM1 - D Les 201 (10:00-10:40)

-Conveners: Rudolph Erasmus

time	[id] title	presenter
10:00	[393] Investigation of plasma dynamics effect on the properties of the vanadium oxide thin films	Ms MASINA, Bathusile
10:20	[402] Electrical properties of Hg/n-Si (MS) and Hg/PO3/n-Si (MIS) Schottky Diodes	Mr NAMBALA, Fred Joe

DPCMM1: Divisional AGM - D Les 201 (11:10-12:10)

-Conveners: Japie Engelbrecht

time	[id] title	presenter
11:10	[479] Divisional AGM	Prof. ENGELBRECHT, Japie

DPCMM1 - D Les 201 (14:00-15:40)

-Conveners: Francis Dejene

time	[id] title	presenter
14:00	[214] Novel Rattling Dynamics Explain Low Thermal Conductivity in Aluminium-Doped Potassium Tungstate Defect Pyrochlore	Dr SHOKO, Elvis
14:20	[315] X-ray reflectivity and surface Brillouin studies of rf magnetron sputtered NbN thin films	Mr KURIA, Jonah
14:40	[166] Can Shapiro step subharmonics be "charged"?	Dr AZEMTSA DONFACK, Hermann
15:00	[41] A microscopic theory of phase transitions	Dr NOLTING, Volkmar
15:20	[400] Structural and Optical Characterisation of Double-Doped TiO ₂ Nanoparticles	Mr NUBI, Olatunbosun

Friday 11 July 2014

DPCMM1 - D Les 201 (10:00-10:40)

-Conveners: Max Chirwa

time	[id] title	presenter
10:00	[331] Magnetic nanoparticles as polarity-sensors: a Molecular Dynamics study on the effect of solvent interactions with surface atoms on iron oxide nanoparticles' magnetization.	Dr HARRIS, Richard
10:20	[257] Elastic constants of Cr ₃ C ₂ thin films by surface Brillouin scattering investigations	Dr WAMWANGI, Daniel

DPCMM1 - D Les 201 (11:10-12:10)

-Conveners: Aletta Prinsloo

time	[id] title	presenter
11:10	[420] Magnetic interactions in 3 <i>d</i> transition metal-doped diamond	Dr BENECHA, Evans
11:30	[70] Laser-selective excitation and polarisation studies of BaF ₂ :Tm ³⁺ single crystals	Dr MUJAJI, Marjorie