

(10) Magnetic and Spintronics

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(10) Magnetic and Spintronics

DETAILED PROGRAMME

Monday, 16-12-2013

Session I : 10.15 – 11.15

10.15 - 10.45 Invited Talk (1)	<u>Xiaofeng Jin</u>	ABS - 1534 - ICA Unveiling the origins of the Anomalous Hall effect
10.45 - 11.15 Invited Talk (2)	<u>Shinji Miwa</u>	ABS - 527 - ICA High diode sensitivity due to nonlinear spin dynamics in magnetic tunnel junction

Session II : 11.45 – 13.45

11.45 - 12.15 Invited Talk (3)	<u>Arindam Ghosh</u>	ABS - Email - ICA Impact of charge and spin defects on the electrical transport in Dirac materials
12.15 - 12.45 Invited Talk (4)	Yoshinori Onose	ABS - 1515 - ICA Topological effects on magnetic excitations in magnetic materials
12.45 - 13.00 Oral (1)	<u>P.D. Kulkarni,</u> M. Krishnan, Harish C. Barshilla, P. Predeep and P. Chowdury	ABS - 334 - ICA Development of pinned electrode for magnetic tunnel junction with perpendicular magnetic anisotropy
13.00 - 13.15 Oral (2)	<u>Prahallad Padhan,</u> P. LeClair and A. Gupta	ABS - 1621 - ICA Frequency-dependent magnetoresistance and magnetocapacitance properties of magnetic tunnel junctions with MgO tunnel barrier

Session III : 16.00 – 18.00

16.00 - 16.30 Invited Talk (5)	<u>S.M. Yusuf</u>	ABS - 1577 - ICA Phase Coexistence in Magnetic Systems
16.30 - 17.00 Invited Talk (6)	<u>T.S. Heng,</u> A. Rusydi and J. Ding	ABS - Email- ICA ZnO Magnetism, Ferroelectricity and Multiferroicity
17.00 - 17.15 Oral (3)	<u>Arup Ghosh and</u> Kalyan Mandal	ABS - 742- ICA Large magnetic entropy change in $\text{Ni}_{48.5-x}\text{Co}_x\text{Mn}_{37}\text{Sn}_{14.5}$ alloys with negligible hysteresis
17.15 - 17.30 Oral (4)	<u>Lora Rita Goveas,</u> Anuradha K.N., K.S. Bhagyashree and S.V. Bhat	ABS - 864 - ICA Recovery of electron-hole symmetry in nanomanganite $\text{Sm}_{1-x}\text{Ca}_x\text{MnO}_3$ (x=0.35, 0.65): EPR and magnetization studies
17.30 - 17.45 Oral (5)	<u>P. Anil Kumar,</u> Ronny Knut, Prabir Pal, Olof Karis, Roland Mathieu, P.Nordblad and D.D.Sarma	ABS - 980 - ICA Enhanced dipolar coupling in composites of nanometre size grains of $\text{La}_{2/3}\text{Sr}_{1/3}\text{MnO}_3$ with CoFe_2O_4

Tuesday, 17-12-2013

Session IV : 10.15 – 11.15

10.15 - 10.45 Invited Talk (7)	<u>Kee Hoon Kim</u>	ABS - Email - ICA Electric field control of magnetization in helimagnets
10.45 - 11.15 Invited Talk (8)	<u>Y.G. Zhao, S. Zhang, P.S.Li, S. Rizwan, J.X. Zhang, J. Seidel, T.L. Qu, Z.L. Luo, Q. He, T. Zou, Q.P. Chen, J.W. Wang, X.F. Han and R. Ramesh</u>	ABS - 1438 - ICA Magnetoelectric coupling in multiferroic heterostructures

Session V : 11.45 – 13.45

11.45 - 12.15 Invited Talk (9)	<u>Pratap Ray Chaudhuri</u>	ABS - Email - ICA Emergence of nanoscale inhomogeneity in the superconducting state of a homogeneously disordered s-wave superconductor, NbN
12.15 - 12.45 Invited Talk (10)	<u>Jung-II Hong</u>	ABS - Email - ICA Shape Induced Magnetism in 2 Dimensional Nanostructure
12.45 - 13.00 Oral (6)	<u>Dheeraj Kumar, Saswati Barman and Anjan Barman</u>	ABS - 1039 - ICA Magnetic Vortex based Transistor Operations
13.00 - 13.15 Oral (7)	<u>Dheeraj Kumar, Jaroslaw W. Klos, Maciej Krawczyk and Anjan Barman</u>	ABS - 1039a - ICA Magnonic based Gap Engineering by Intrinsic and Extrinsic Mirror Symmetry Breaking in Magnonic Antidot waveguide

Session VI : 16.00 – 18.00

16.00 - 16.30 Invited Talk (11)	<u>Ying-Hao Chu</u>	ABS - Email - ICA Coupled Magnetic Properties of Self-Assembled Complex Oxide Heterostructures
16.30 - 17.00 Invited Talk (12)	<u>R. Mahendiran</u>	ABS - 1498 - ICA Perovskite oxides tailored for magnetic refrigeration and thermoelectric applications
17.00 - 17.30 Invited Talk (13)	<u>S. Pramanick and S. Majumdar</u>	ABS - 1040 - ICA Magnetic Behavior of Ni-Mn-Sn-based Shape Memory Alloys
17.30- 17.45 Oral (8)	<u>T. Prasanna Kumari, M. Manivel Raja, K. Srinivas, S. Srinath and S.V. Kamat</u>	ABS - 1070 - ICA Structural and magnetic Properties of Heusler type $Fe_{2+x}Co_{1-x}Si$ alloys
17.45- 18.00 Oral (9)	<u>Nupur Bahadur, Renu Pasricha, Govind, Suresh Chand, Ravinder Kumar Kotnala</u>	ABS - 1490 - ICA Ni doped Titania as Dilute Magnetic Semiconductor for possible Spintronics Applications

18.00- 18.15 Oral (10)	<u>Kaustuv Manna</u> , Venkata Srinu Bhadram, Suja Elizabeth, Chandrasah Narayana and P.S. Anil Kumar	ABS - 1478 - ICA Magnetic Interactions in $\text{LaMn}_{0.5}\text{Co}_{0.5}\text{O}_3$ single crystals
18.15 - 18.30 Oral (11)	<u>G. Sharma</u> , J. Saha and S. Patnaik	ABS - 1598 - ICA Unusually High Temperature Multiferroicity in Y_2CoMnO_6

Poster Session I :

Monday, 16-12-2013, 14.00 - 15.30 : Poster 01-37 and Tuesday 17-12-2013 14.00 - 15.30 Poster 38-74

10 - Poster - 01	P. Mohanty N. C. Mishra R. J. Choudhary and Chandana Rath	Effect of Oxygen Partial Pressure and Swift Heavy Ion Irradiation on Properties of Undoped and Co doped TiO_2 Thin Films	ABS - 26 - ICA
10 - Poster - 02	Himanshu Pandey and R. C. Budhani	Anomalous transport properties of $\text{Co}_2\text{MnSi/MgO}$ thin films	ABS - 58 - ICA
10 - Poster - 03	Himanshu Pandey P. C. Joshi and Amish G. Joshi	X-ray photoelectron spectroscopy studies on PLD grown Co_2MnSi thin films	ABS - 58a - ICA
10 - Poster - 04	P.S. Solanki M.J. Keshvani Sadaf Jethva, Megha Vagadia, Ashish Ravalia, N.A. Shah, and D.G. Kuberkar	Size Dependent Dielectric and Switching Behavior of Nanostructured PrMnO_3	ABS - 158 - ICA
10 - Poster - 05	P. Rajeswari S. Dhanuskodi	Spectroscopic Studies on the Origin of Room Temperature Ferromagnetism in ZnO: Mn Nanoparticles	ABS - 175 - ICA
10 - Poster - 06	Srinatha Narayanaswamy Basavaraj Angadi K. G. M. Nair Nishad G Deshpande and Way-Faung Pong	Investigation of Room Temperature Ferromagnetism in nano crystalline Co substituted ZnO based DMS materials	ABS - 198 - ICA
10 - Poster - 07	K. Srinivas M. Manivel Raja L. Sarvanan S. Arumugam and S.V. Kamat	Structural, magnetic and electrical properties $\text{Co}_2\text{FeSi}_{1-x}\text{M}_x$ Heusler alloys (where $x = 0$ and 0.5 ; $M = \text{Ga, Ge, Al, In, and Sn}$)	ABS - 200 - ICA
10 - Poster - 08	Manjunatha S O Ashok Rao	Structural and morphological studies of barium doped $\text{La}_{0.65}\text{Ca}_{0.35-x}\text{Ba}_x\text{MnO}_3$ ceramic perovskites	ABS - 233 - ICA
10 - Poster - 09	Rajalaxmi Maharana V.V. Bhanu Prasad M. Manivel Raja Pradip Paik and Subir Roy	Ageing effect of ferromagnetic Ni nanoparticles embedded in AlPO_4 matrix calcined at high temperatures	ABS - 244 - ICA

10 - Poster - 10	Mamatha D Daivajna Ashok Rao	Magnetic properties of bismuth doped $\text{Pr}_{0.6-x}\text{Bi}_x\text{Sr}_{0.4}\text{MnO}_3$ ($0 \leq x \leq 0.15$) manganites	ABS - 283 - ICA
10 - Poster - 11	S. Bhaumik A. K. Sinha S. K. Ray, A. K. Das	Optical and magnetic properties of Co doped ZnO-ZnS core-shell nanorods	ABS - 307 - ICA
10 - Poster - 12	Nilotpal Ghosh and H.L. Bhat	Critical Point Phenomena, Magnetocaloric effect and Scaling Anomalies in Ferromagnetic Insulating $\text{Nd}_{0.7}\text{Pb}_{0.3}\text{MnO}_3$	ABS - 315 - ICA
10 - Poster - 13	Sudakar Chandran	Tuning Functional Properties by Engineering Defects in Oxides	ABS - 359 - ICA
10 - Poster - 14	U. Manju I. Vobornik J. Fujii , F. Borgatti P. Torelli , D. Krizmancic Y. S. Hor, R. J. Cava and G. Panaccione	Magnetic Proximity Effect as a Pathway to Spintronic Applications of Topological Insulators	ABS - 421 - ICA
10 - Poster - 15	D. Topwal, U. Manju S. Gardonio J.-F. Jerratsch N. Nilius, G. Pacchioni H.-J Freund and C. Carbone	Trapping isolated magnetic atoms	ABS - 427 - ICA
10 - Poster - 16	B.V.Rao P.V.L.Narayana and A.D.P. Rao	Magnetic and Microstructural Studies of Mo^{6+} Substituted Copper Ferrite	ABS - 471 - ICA
10 - Poster - 17	Prashant Kumar Sitharaman Uma and Rajamani Nagarajan	Precursor driven one pot synthesis of Wurtzite and Chalcopyrite CuFeS_2	ABS - 476 - ICA
10 - Poster - 18	Sudipta Dutta Jayasimha Atulasimha M.S. Bobji and Arindam Ghosh	Magnetic Force Microscopy (MFM) – A Tool to study magnetic property of Ni nanowires	ABS - 511 - ICA
10 - Poster - 19	Elaine T. Dias K. R. Priolkar and A. K. Nigam	Tuning Magneto-structural transformation temperature in Antiperovskite Compounds	ABS - 546 - ICA
10 - Poster - 20	Nagaiah Kambhala and S. Angappane	Proper electroresistance of $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ thin film	ABS - 579 - ICA
10 - Poster - 21	K.B.Korzhybayeva S.M.Tazhibayeva K.B.Musabekov D.K.Bolatova O.Ye.Zhanadilov	Magnetic Nanocomposites of Diatomite/ Iron Oxide	ABS - 590 - ICA
10 - Poster - 22	B. K. Pandey A. K. Shahi and Ram Gopal	Optical and magnetic properties of Fe_2O_3 nanoparticles synthesized by laser ablation/fragmentation technique in different liquid media	ABS - 611 - ICA

10 - Poster - 23	S. Chabri B.N. Mondal A. Basu Mallick and P. P.Chattopadhyay	Microstructure and magnetic properties of Cu-Co alloy with the addition of Mn, Cr and Si prepared by ball milling and annealing	ABS - 633 - ICA
10 - Poster - 24	Rambabu.Kuchi Jong-Ryul Jeong	Environmentally friendly electroless plating for Ag/TiO ₂ -coated core-shell magnetic particles using ultrasonic treatment	ABS - 660 - ICA
10 - Poster - 25	Rambabu.Kuchi Jong-Ryul Jeong	Influence of Calcinations Time and Phase evolutions of Yttrium-Iron Garnet Synthesized by the Sol-Gel Method	ABS - 660a - ICA
10 - Poster - 26	A. Shukla B. K. Pandey A. K. Shahi A. K. Bhardwaj and Ram Gopal	Synthesis and optical properties of titanium ferrite nanoparticles	ABS - 706 - ICA
10 - Poster - 27	M.Krishnan P. Predeep Harish C. Barshulia and P. Chowdhury	High Thermal Stability CoFe/Cu GMR Multilayer Stack for Automobile Applications	ABS - 737 - ICA
10 - Poster - 28	Raja Das and Pankaj Poddar	Interplay of Dy ³⁺ , Gd ³⁺ and Mn ³⁺ spins in ortho rhombic DyMnO ₃ and GdMnO ₃ nanoparticles	ABS - 793 - ICA
10 - Poster - 29	S. Vinodh Kumar M. Manivel Raja Ranjan K. Singh R. Kodi Pandyan S. Seenithurai and M. Mahendran	Dependence of substrate temperature on magnetic properties of sputtered Ni-Mn-Ga ferromagnetic shape memory thin films	ABS - 838 - ICA
10 - Poster - 30	Royappan Jesintha Rani Shanmugam Vinoth Kumar Sonai Seenithurai and Manickam Mahendran	Martensitic transformation and magnetic properties of Ni ₂ MnGa ferromagnetic shape memory alloys	ABS - 838a - ICA
10 - Poster - 31	Dushyant Kumar P. C. Joshi Z. Hossain and R. C. Budhani	Spin Polarized Carrier Injection in Co ₂ MnSi/MgO/NbN Heterostructure	ABS - 853 - ICA
10 - Poster - 32	D. Paul Joseph J. W. Lin W. C. Chen, J. G. Lin	Effect of Isovalent Bi ³⁺ Substitution at the La ³⁺ Site on the Structural and Magnetic Properties of LaMnO ₃	ABS - 872 - ICA
10 - Poster - 33	Nimisha Raghuvanshi and Avinash Singh	Stabilization of (0, π) SDW State within Two-Band Model for Iron Pnictides: Role of Hund's Coupling	ABS - 886 - ICA
10 - Poster - 34	V.M.Gaikwad P.R.Chaudhari and S.A.Acharya	Existence of spin glass state in BiFeO ₃ – ZnFe ₂ O ₄ composite	ABS - 908 - ICA

10 - Poster - 35	S.Nallamuthu T.P.Rashid V. Krishnakumar Celine Besnard Hans Hagemann Marian Reiffers R. Nagalakshmi	Studies on novel tetragonal Ce_2RhGa_{12} compound	ABS - 931 - ICA
10 - Poster - 36	P. P. Jasnamol P. Neenu Lekshmi Chinthu Sukumar, Manoj Raama Varma and Nandakumar Kalarikkal	Structural, magneto-electric and transport properties of $Sr_2Fe_{1-x}Mn_xMoO_6$ ($x=0, 0.25, 0.50, 0.75, 1.0$)	ABS - 992 - ICA
10 - Poster - 37	A. I. Mallick and M. S. Ramachandra Rao	Growth and characterization of superconducting/ferromagnetic ($YBa_2Cu_3O_{7-x}/La_{2/3}Ca_{1/3}MnO_3$) multilayers	ABS - 993 - ICA

Poster Session II :

Tuesday, 17-12-2013, 14.00 - 15.30 (Poster 38 to 74)

10 - Poster - 38	Bhagya Uthaman K S Anand M. Vasundhara and Manoj Raama Varma	Effects of Co doping on the structural and transport properties of electron-doped manganite $La_{0.7}Te_{0.3}MnO_3$	ABS - 997 - ICA
10 - Poster - 39	Raji GR Chinthu Sukumar M. Vasundhara V Manoj Raama Varma	Synthesis and magneto-transport properties of nano-structured $Ni_{45}Co_5Mn_{38}Sb_{12}$ Heusler alloy	ABS - 1006 - ICA
10 - Poster - 40	K. M. Ranjith M. Baenitz and R. Nath	Magnetic properties of the frustrated coupled ladder compound $Cu_4P_2O_9$	ABS - 1013 - ICA
10 - Poster - 41	Chinthu Sukumar P. P Jasnamol P. Neenu Lekshmi Manoj Raama Varma	Synthesis, Structural and Electrical characterization of multiferroic Sr_2NiMoO_6 double perovskite oxides	ABS - 1016 - ICA
10 - Poster - 42	B. Sellarajan P. D. Kulkarni M. Krishnan H. S. Nagaraja, Harish C. Barshilia and P. Chowdhury	Effective magneto-crystalline anisotropy in ordered Co nanowire array	ABS - 1020 - ICA
10 - Poster - 43	Arabinda Haldar Chandrima Banerjee and Anjan Barman	Spin Wave Dispersion in $Ni_{80}Fe_{20}$ Thin Film using Brillouin Light Scattering Spectroscopy	ABS - 1039 - ICA
10 - Poster - 44	B. K. Mahato, S. Choudhury, R. Mandal, S. Barman, D. Kumar, O. Rousseau, Y. Otani, and A. Barman	Broadband Ferromagnetic Resonance Study of $Ni_{80}Fe_{20}$ Nanodot Lattices with Varying Shapes	ABS - 1039a - ICA

10 - Poster - 45	S Ramakanth K C James Raju	Phonon confinement and strain in BaTiO ₃ nanoparticles	ABS - 1056 - ICA
10 - Poster - 46	K. V. Sreenivasulu Rotte N. Kumar, and Vadali V. S. S. Srikanth	Magnetic Behavior of MgO Decked Few Layered Graphene	ABS - 1112 - ICA
10 - Poster - 47	Gunjan Srinet Ravindra Kumar and Vivek Sajal	Optical and Magnetic Properties of Mn Doped ZnO Samples Prepared by Solid State Route	ABS - 1139 - ICA
10 - Poster - 48	Tirthankar Chakraborty Ruchika Yadav and Suja Elizabeth	Magnetic Properties of Half-Doped NdFe _{0.5} Mn _{0.5} O ₃ System	ABS - 1140 - ICA
10 - Poster - 49	Geetanjali Singh and S V Bhat	Effect of Size Reduction on the Magnetic Ordering in Bi _{0.2} Sr _{0.8} MnO ₃	ABS - 1187 - ICA
10 - Poster - 50	Deepanshu Sharma Simrjit Singh and Neeraj Khare	Growth of single phase cobalt ferrite thin films by ultrasonically assisted chemical vapor deposition technique	ABS - 1208 - ICA
10 - Poster - 51	Pradeep Reddy Vanga and Ashok. M	Effect of fluxing temperature on the synthesis and properties of BiFeO ₃	ABS - 1232 - ICA
10 - Poster - 52	K. Radhika Sreeja Sasidharan and N. Harish Kumar	Structural, Microstructural and Magnetic properties of Fe doped SrSnO ₃ nanosticks	ABS - 1247 - ICA
10 - Poster - 53	Irshad Bhat Shahid Husain	Structure, Morphology and Magneto-transport properties of laser ablated La _{0.85} Te _{0.15} MnO ₃ thin film on LaAlO ₃	ABS - 1256 - ICA
10 - Poster - 54	R. Rajivgandhi R. Nirmala J. Arout Chelvane and A. K. Nigam	Magnetic and magnetocaloric properties of RNi (R = Gd, Ho) intermetallic compounds and their melt-spun ribbons	ABS - 1280 - ICA
10 - Poster - 55	Bhagyashree K. S. and S. V. Bhat	Electron-Hole Asymmetry in Bulk and Nanoparticles of Nd _{1-x} Ca _x MnO ₃ (x = 0.6, 0.4)	ABS - 1346 - ICA
10 - Poster - 56	R. S. Joshi B. M. Sankarshan K. Mohan Kant and P. S. Anil Kumar	Anisotropic Low Field Magnetoimpedance Effect in (111) Oriented Fe ₃ O ₄ Thin Films	ABS - 1355 - ICA
10 - Poster - 57	M. Srikanth and B. Rushi	Processing and influence of La ⁺³ on the properties of Ni-Zn ferrites	ABS - 1398 - ICA
10 - Poster - 58	Kashmiri Deka P. Deb and A.B. Patel	MnO Nanoparticles Encapsulated with Mesoporous Carbon Shell as a Novel Biocompatible MRI Contrast Probe	ABS - 1420 - ICA
10 - Poster - 59	P. Satyarthi S. Ghosh1, P. Kumar D Kanjilal, S. Zhou and P. Srivastava	Role of short range ordering in defect mediated ferromagnetism of Co doped ZnO	ABS - 1428 - ICA

10 - Poster - 60	P. Manimuthu and C. Venkateswaran	Non-Universal electrical relaxation in Nanocrystalline SrFeO _{3-δ}	ABS - 1447 - ICA
10 - Poster - 61	Arul Maximus Rabel D. Ramachandran and Nixon Raj	Studies on magnetic behavior of Super Paramagnetic Iron Oxide Nanoparticles (SPIONs): effect of surface functionalization	ABS - 1469 - ICA
10 - Poster - 62	K. Saravana Kumar and C. Venkateswaran	Synthesis and Study of Fe-substituted NdMn ₂ O ₅	ABS - 1482 - ICA
10 - Poster - 63	M. Krishna Surendra, Brajesh Tiwari Aparna Devi and M.S. Ramachandra Rao	Magnetocapacitance studies of CoFe ₂ O ₄ nanoparticles and effect of grain size.	ABS - 1494 - ICA
10 - Poster - 64	Manish Kumar S. Shankar and Om Parkash	Comparative Studies of BiFeO ₃ Prepared By Chemical Routes	ABS - 1523 - ICA
10 - Poster - 65	Ashimaa Sujata Sanghib Ashish Agarwalb, Reetub	Structural, dielectric and magnetic properties of Sr/Pb doped M type hexaferrites	ABS - 1562 - ICA
10 - Poster - 66	S. P. Pal and P. Sen	Magnetic relaxation phenomena in Fe nanoparticles composited with activated carbon	ABS - 1565 - ICA
10 - Poster - 67	A.B. Shinde P.P. Khirade C.M. Kale P.S. Aghav A.A. Pandit K.M. Jadhav	Synthesis and characterization of cobalt ferrite nanoparticles	ABS - 1595 - ICA
10 - Poster - 68	G.B. Jadhav P.K. Gaikwad G.H. Kale S.P. Jadhav K.M. Jadhav	Effect of Gd substitution on the magnetic properties of Ni-Cu-Zn spinel ferrite	ABS - 1596 - ICA
10 - Poster - 69	A.P. Keche S.D. More V.G. Patil M.N. Sarnaik S.J. Shukla K.M. Jadhav	Impact of chromium substitution on the magnetic properties of magnesium ferrite nanoparticles	ABS - 1596a - ICA
10 - Poster - 70	Bhaskar Chandra Behera Venkata Ravindra A Prahallad Padhan and Wilfrid Prellier	Ferromagnetic and Antiferromagnetic Coupling in La _{0.7} Sr _{0.3} MnO ₃ and SrRuO ₃ Superlattice Structures	ABS - 1618 - ICA
10 - Poster - 71	A. Sendil Kumar Ravinder Reddy Anil K. Bhatnagar	ESR study of Mg doped (La _{0.67} Ca _{0.33}) MnO ₃ Systems	ABS - 1649 - ICA
10 - Poster - 72	Ambesh Dixit	Ground state electronic properties of bulk FeVO ₄ : a new vanadate multiferroic	ABS - Email - ICA

10 - Poster - 73	Prasanta Dhak Jae-Hyeok Lee Ha-Youn Lee Min-Kwan Kim Kyung-Suk Jin Ki-Tae Nam and Sang-Koog Kim	Control of the shape and size of soft magnetic nanoparticles with threedimensional vortex structure	ABS - Email 1 - ICA
10 - Poster - 74	Somnath Ghara and A. Sundaresan	Magnetodielectric effect and Re-entrant Spin-glass State in the Spiral Magnet $\text{BiMnFe}_2\text{O}_6$	ABS - Email 2 - ICA