

# **International Conference on Magnetism 2009**

**(ICM 2009)**

**Journal of Physics: Conference Series Volume 200**

**Karlsruhe, Germany  
26-31 July 2009**

**Volume 1 of 3**

**ISBN: 978-1-61738-277-2**

**Printed from e-media with permission by:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571



**Some format issues inherent in the e-media version may also appear in this print version.**

Copyright© (2009) by the Institute of Physics  
All rights reserved.

Printed by Curran Associates, Inc. (2010)

For permission requests, please contact the Institute of Physics  
at the address below.

Institute of Physics  
Dirac House, Temple Back  
Bristol BS1 6BE UK

Phone: 44 1 17 929 7481  
Fax: 44 1 17 920 0979

[techtracking@iop.org](mailto:techtracking@iop.org)

**Additional copies of this publication are available from:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: 845-758-0400  
Fax: 845-758-2634  
Email: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# TABLE OF CONTENTS

## VOLUME 1

### STRONGLY CORRELATED ELECTON SYSTEMS

<b>CONTROL OF THE POLARIZATION FLOP DIRECTION IN MULTIFERROIC RMNO<sub>3</sub> (R = TB, DY) BY A TILTED MAGNETIC FIELD</b> .....	1
<i>N Abe, K Taniguchi, H Umetsu, S Ohtani, T Arima</i>	
<b>MAGNETISM OF UTGE COMPOUNDS TUNED BY HYDROGEN ABSORPTION</b> .....	5
<i>A M Adamska, A V Kolomiets, J Pospíšil, L Havela</i>	
<b>MAGNETOELECTRIC PROPERTIES OF (CA<sub>1-x</sub>SR<sub>x</sub>)<sub>2</sub>COSI<sub>2</sub>O<sub>7</sub> CRYSTALS</b> .....	10
<i>M Akaki, J Tozawa, M Hitomi, D Akahoshi, H Kuwahara</i>	
<b>THE EFFECT OF NITROGEN VACANCIES IN LA<sub>3</sub>NI<sub>2</sub>B<sub>2</sub>N<sub>3-6</sub></b> .....	14
<i>T Ali, C Rupprecht, R T Khan, E Bauer, G Hilscher, H Michor</i>	
<b>NON-EQUILIBRIUM CURRENT AND ELECTRON PUMPING IN NANOSTRUCTURES</b> .....	18
<i>A Alvermann, H Fehske</i>	
<b>MAGNETIC PROPERTIES OF STRUCTURE-DISORDERED HEAVY FERMION CE-MN ALLOYS</b> .....	22
<i>Yusuke Amakai, Shigeyuki Murayama, Yoshihisa Obi, Hideaki Takano, Naoki Momono, Koki Takanashi</i>	
<b>RESONANT X-RAY SCATTERING STUDY OF HIDDEN ORDER IN URU<sub>2</sub>SI<sub>2</sub> USING A LOW-STRESS SINGLE CRYSTAL</b> .....	26
<i>H Amitsuka, T Inami, M Yokoyama, S Takayama, Y Ikeda, I Kawasaki, Y Homma, H Hidaka, T Yanagisawa</i>	
<b>THEORY OF ANDREEV REFLECTION IN A TWO-ORBITAL MODEL OF IRON-PNICTIDE SUPERCONDUCTORS</b> .....	30
<i>M A N Araújo, P D Sacramento</i>	
<b>CHARACTERISTICS OF THE MAGNETIC ORDER IN CECU<sub>2</sub>SI<sub>2</sub> REVEALED BY NEUTRON SPIN-ECHO MEASUREMENTS</b> .....	34
<i>J Arndt, O Stockert, E Faulhaber, P Fouquet, H S Jeevan, C Geibel, M Loewenhaupt, F Steglich</i>	
<b>MAGNETORESISTANCE IN THE PARAMAGNETIC INSULATING STATE OF PR<sub>0.50</sub>CA<sub>0.50</sub>COO<sub>3</sub></b> .....	38
<i>A J Barón-González, C Frontera, J L García-Muñoz, J Blasco</i>	
<b>COEXISTENCE OF ANTIFERROMAGNETISM AND SUPERCONDUCTIVITY IN CEPT<sub>2</sub>LN<sub>7</sub></b> .....	42
<i>E D Bauer, V A Sidorov, H Lee, N Kurita, F Ronning, R Movshovich, J D Thompson</i>	
<b>QUANTUM SPIN GLASS RELAXATION IN UCU<sub>4</sub>NI</b> .....	46
<i>O O Bernal, D E Maclaughlin, Lei Shu, J L Gavilano, G R Stewart, D J Burnette, C Baines</i>	
<b>VORTICES AND DOMAIN WALLS: 'WORMHOLES' IN UNCONVENTIONAL SUPERCONDUCTORS</b> .....	50
<i>P F Bessarab, A V Radievsky</i>	
<b>CORRELATION EFFECTS IN THE SMALL GAP SEMICONDUCTOR FECA<sub>3</sub></b> .....	54
<i>E M Bittar, C Capan, G Seyfarth, P G Pagliuso, Z Fisk</i>	
<b>STRUCTURAL, ELECTRICAL AND MAGNETIC PROPERTIES OF RE<sub>1-3</sub>SR<sub>2-3</sub>FEO<sub>3</sub> COMPOUNDS (RE = LA, PR, ND, EU AND GD)</b> .....	58
<i>J Blasco, V Cuartero, J García, G Subías, M C Sánchez, C Piquer, J Stankiewicz, J A Rodríguez-Velamazán, J Herrero-Martin</i>	
<b>QUANTUM GRIFFITHS PHASE IN CEPD<sub>1-x</sub>RH<sub>x</sub> WITH X≈0.8</b> .....	62
<i>M Brando, T Westerkamp, M Deppe, P Gegenwart, C Geibel, F Steglich</i>	
<b>COMPASS MODEL ON A LADDER AND SQUARE CLUSTERS</b> .....	66
<i>Wojciech Brzezicki, Andrzej M Oles</i>	
<b>MODEL OF MAGNETIC ORDERING IN COUPLED ELECTRON AND SPIN SYSTEMS</b> .....	70
<i>Hana Cencariková, Pavol Farkašovský, M Žonda</i>	
<b>EFFECT OF SR SUBSTITUTION FOR CA ON THE PHYSICAL PROPERTIES IN THE ND<sub>0.5</sub>CA<sub>0.5</sub>MNO<sub>3</sub> SYSTEM</b> .....	74
<i>W Cheikhrouhou Koubaa, R M Nasri, M Koubaa, A Cheikhrouhou</i>	
<b><sup>105</sup>PD NQR STUDY ON NPPD<sub>5</sub>AL<sub>2</sub> AND CEPD<sub>5</sub>AL<sub>2</sub></b> .....	78
<i>H Chudo, H Sakai, Y Tokunaga, S Kambe, D Aoki, Y Haga, T D Matsuda, Y Homma, Y Nakano, F Honda, R Settai, Y Onuki, H Yasuoka</i>	
<b>ELECTRON SCATTERING OFF STRUCTURAL TWO-LEVEL SYSTEMS IN ZRAS<sub>1.595</sub>SE<sub>0.393</sub></b> .....	82
<i>Tomasz Cichorek, Lukasz Bochenek, Rainer Niewa, Marcus Schmidt, Andreas Schlechte, Rudiger Kniep, Frank Steglich</i>	
<b>BOND STRETCHING PHONON SOFTENING AND ISOTOPE EFFECT IN A PHENOMENOLOGICAL MODEL FOR CUPRATE SUPERCONDUCTORS</b> .....	86
<i>S Cojocaru, R Citro, M Marinaro</i>	
<b>THE RANDOM CLUSTER APPROACH IN THE KONDO LATTICE MODEL</b> .....	90
<i>S G Magalhaes, F M Zimmer, B Coqblin</i>	
<b>EFFECTS OF SUBSTITUTING MN WITH GA IN THE MULTIFERROIC PROPERTIES OF TBMNO<sub>3</sub></b> .....	94
<i>V Cuartero, J Blasco, J García, G Subías, M C Sánchez</i>	
<b>QUANTUM PHASE TRANSITION IN CR-TI ALLOYS</b> .....	98
<i>A L S Varella, A J A De Oliveira</i>	
<b>EVIDENCE FOR A METAMAGNETIC TRANSITION IN THE HEAVY FERMION SYSTEM CETIGE</b> .....	102
<i>M Deppe, N Caroca - Canales, J G Sereni, C Geibel</i>	

<b>FLUCTUATION CONDUCTIVITY IN MELT-TEXTURED YBACUO SAMPLES UNDER LOW MAGNETIC FIELDS</b> .....	106
<i>F T Dias, V N Vieira, P Pureur, P Rodrigues Jr, X Obradors, F Wolff-Fabris</i>	
<b>PROGRESS IN THE THEORETICAL DESCRIPTION OF A STRONGLY FRUSTRATED EDGE-SHARED MODEL CHAIN CUPRATE: <math>\text{Li}_2\text{CUO}_2</math></b> .....	110
<i>S-L Drechsler, J Málek, W E A Lorenz, R O Kuzian, R Klingeler, S Nishimoto, U Nitzsche, M Knupfer, N Wizen, G Behr, H Rosner, H Eschrig, B Büchner</i>	
<b>COHERENT PARTICLE RESPONSE OF TWO-DIMENSIONAL ORGANIC CONDUCTORS UPON CROSSING THE MOTT TRANSITION</b> .....	114
<i>M Dressel, M Dumm, N Drichko, C Méziere, P Batail</i>	
<b>SPIN FLUCTUATION PROCESSES IN THE PROBLEM OF S-WAVE SUPERCONDUCTING PHASE OF THE HEAVY-FERMION INTERMETALLIDES</b> .....	118
<i>V V Val'Kov, D M Dzebisashvili</i>	
<b>DMRG ANALYSIS OF THE SDW-CDW CROSSOVER REGION IN THE 1D HALF-FILLED HUBBARD-HOLSTEIN MODEL</b> .....	122
<i>S Ejima, H Fehske</i>	
<b>RARE EARTH MAGNETISM AND FERROELECTRICITY IN <math>\text{RMNO}_3</math></b> .....	126
<i>R Feyerherm, E Dudzik, O Prokhnenko, D N Argyriou</i>	
<b>STRONG ELECTRONIC CORRELATIONS IN <math>\text{Li}_x\text{M}(\text{PC},\text{NC})</math> ORGANIC CONDUCTORS NEAR HALF FILLING</b> .....	130
<i>M Filibian, L Bordonali, P Carretta, M C Mozzati, P Ghigna, S Klyatskaya, M Ruben</i>	
<b>SLAVE-BOSON MEAN-FIELD STUDY OF THE DIMENSIONAL CROSSOVER IN <math>\text{SR}_2\text{RUO}_4</math></b> .....	134
<i>M H Fischer, M Sgrist</i>	
<b>ELECTRON SPIN RESONANCE OF THE ITINERANT MAGNETS <math>\text{ZRZN}_2</math> AND <math>\text{NB}_{1-y}\text{FE}_{2+y}</math>: A COMPARISON</b> .....	138
<i>T Förster, J Sichelschmidt, D Grüner, M Brando, N Kimura, F Steglich</i>	
<b>MAGNETIZATION OF <math>\text{PD}_{1-x}\text{NI}_x</math> NEAR QUANTUM CRITICALITY</b> .....	142
<i>C Franz, C Pfeleiderer, A Neubauer, M Schulz, B Pedersen, P Böni</i>	
<b>THE TEMPERATURE EVOLUTION OF THE OUT-OF-PLANE CORRELATION LENGTHS OF CHARGE-STRIPE ORDERED <math>\text{La}_{1-725}\text{SR}_{0.275}\text{NiO}_4</math></b> .....	146
<i>P G Freeman, N B Christensen, D Prabhakaran, A T Boothroyd</i>	
<b>QUANTUM CRITICALITY IN <math>\text{Yb}(\text{RH}_{0.97}\text{CO}_{0.03})_2\text{Si}_2</math> PROBED BY LOW-TEMPERATURE RESISTIVITY</b> .....	153
<i>Sven Friedemann, Niels Oeschler, Cornelius Krellner, Christoph Geibel, Frank Steglich</i>	
<b>STRUCTURAL PROPERTIES, MAGNETIC AND OXYGEN-VACANCIES ORDER IN <math>\text{Y}(\text{Ba}_{1-x}\text{SR}_x)\text{CO}_2\text{O}_{5.5}</math> LAYERED COBALTITES</b> .....	157
<i>C Frontera, J L García-Muñoz, O Castaño, C Ritter, M Brunelli</i>	
<b>ON THE ROLE OF SOLID SOLUTION RANDOMNESS ON PHASE COEXISTENCE IN B-SITE SUBSTITUTED MANGANITES</b> .....	161
<i>C Frontera, J L García-Muñoz</i>	
<b>APPLICATION OF BAYESIAN INFERENCE TO STOCHASTIC ANALYTIC CONTINUATION</b> .....	165
<i>S Fuchs, M Jarrell, T Pruschke</i>	
<b>SUPERCONDUCTIVITY OF <math>\text{LaFeAsO}_{1-x}\text{F}_x</math> UNDER HIGH PRESSURE STUDIED USING NMR</b> .....	169
<i>Naoki Fujiwara, Tatsuya Nakano, Kenichiro Tatsumi, Hironari Okada, Hiroki Takahashi, Yoichi Kamihara, Masahiro Hirano, Hideo Hosono</i>	
<b>PRESSURE EFFECT ON SUPERCONDUCTIVITY IN <math>\text{CD}_2\text{RE}_2\text{O}_7</math></b> .....	173
<i>K Fujiwara, K Morimoto, E Maeda, S Nishigori</i>	
<b>ON THE THEORY OF PHASE TRANSITION IN MULIFERROICS</b> .....	177
<i>B R Gadjiev</i>	
<b>EXPERIMENTAL EVIDENCE FOR OFF-CENTER RATTLING OF <math>\text{YB}^{3+}</math> IN THE SKUTTERUDITE COMPOUNDS OF <math>\text{Ce}_{1-x}\text{YB}_x\text{Fe}_4\text{P}_{12}</math></b> .....	181
<i>F A Garcia, D J Garcia, M A Avila, J M Vargas, P G Pagliuso, C Rettori, M Passeggi, S B Oseroff, P Schlottmann, Z Fisk</i>	
<b>QUASIPARTICLES IN CMR OXIDES IN PARA- AND FERROMAGNETIC PHASES</b> .....	185
<i>V A Gavrichkov, S G Ovchinnikov, Z V Pchelkina, I Nekrasov</i>	
<b>THE ZERO-BIAS ANOMALY OF POINT CONTACTS WITH FERROMAGNETIC NI AND WITH THE HEAVY-FERMION ANTIFERROMAGNET <math>\text{CeAl}_2</math></b> .....	189
<i>Kurt Gloos, Jouko Huupponen</i>	
<b>A GIANT ENHANCEMENT OF CMR IN <math>\text{Eu}_{0.6}\text{Ca}_{0.4}\text{B}_6</math></b> .....	193
<i>V V Glushkov, M A Anisimov, A V Bogach, O A Churkin, S V Demishev, V B Filipov, K Flachbart, A V Kuznetsov, A V Levchenko, N Yu Shitsevalova, N E Sluchanko</i>	
<b>ANTIFERROMAGNETIC BEHAVIOR IN <math>\text{CeCO}_9\text{Ge}_4</math></b> .....	197
<i>C Gold, L Peyker, E-W Scheidt, H Michor, W Scherer</i>	
<b>SPIN FLUCTUATION RENORMALIZATIONS OF NORMAL AND SUPERCONDUCTING STATE PROPERTIES IN T - J*-MODEL</b> .....	201
<i>Valery V Val'Kov, Alexander A Golovnya</i>	
<b>HUBBARD MODEL WITH HOPPING INTERACTION AND INTER-SITE KINETIC CORRELATIONS</b> .....	205
<i>Grzegorz Górski, Jerzy Mizia</i>	
<b>EFFECT OF IRIIDIUM SUBSTITUTION IN <math>\text{RH}_{17}\text{S}_{15}</math></b> .....	209
<i>H. R. Naren, Tamizhavel Arumugam, S. Ramakrishan</i>	
<b>ELECTROMAGNON IN ONE-DIMENSIONAL FRUSTRATED CHAIN</b> .....	213
<i>Tsutomu Hasegawa, Shin Miyahara, Nobuo Furukawa</i>	

<b>RAMAN SCATTERING STUDY IN IRIDIUM PYROCHLORE OXIDES</b> .....	217
<i>T Hasegawa, N Ogita, K Matsuhira, S Takagi, M Wakeshima, Y Hinatsu, M Udagawa</i>	
<b>PRESSURE-PHASE DIAGRAM OF UCOGE BY AC-SUSCEPTIBILITY AND RESISTIVITY MEASUREMENTS</b> .....	221
<i>E Hassinger, D Aoki, G Knebel, J Flouquet</i>	
<b>THERMAL EXPANSION OF COEXISTENCE OF FERROMAGNETISM AND SUPERCONDUCTIVITY</b> .....	225
<i>Nobukuni Hatayama, Rikio Konno</i>	
<b>URANIUM COMPOUNDS PREPARED BY SPUTTER DEPOSITION: <math>UF_{2+x}</math></b> .....	229
<i>A Adamska, L Havela, S Daniš, J Pešička, J Macl, K Uhlírová, T Gouder, R Eloirdi, F Huber, N-T H Kim-Ngan, A G Balogh</i>	
<b>STRUCTURE AND MAGNETIC PROPERTIES OF PEROVSKITE-LIKE MULTIFERROIC <math>PBFe_{0.5}NB_{0.5}O_3</math></b> .....	233
<i>Roman Havlicek, Jana Poltíerova Vejpravova, Dariusz Bochenek</i>	
<b>FE-DOPING EFFECTS ON MAGNETISM IN HOLE-TYPE SUPERCONDUCTORS OF <math>(Bi,Pb)_2Sr_2CuO_6</math></b> .....	237
<i>H Hiraka, S Wakimoto, M Takeda, K Kakurai, D Matsumura, Y Nishihata, J Mizuki, K Yamada</i>	
<b>SUPERCONDUCTIVITY AND MAGNETISM IN <math>Eu_{1-x}K_xFe_2As_2</math></b> .....	241
<i>H S Jeevan, P Gegenwart</i>	
<b>NUCLEAR MAGNETIC RELAXATION IN A QUASI-ONE-DIMENSIONAL CONDUCTOR <math>\beta-AG_{0.33}V_2O_5</math></b> .....	245
<i>Akihiko Hisada, Naoki Fujiwara, Kenichiro Tatsumi, Touru Yamauchi, Yutaka Ueda</i>	
<b>MAGNETIC PROPERTIES OF NA-K CLUSTERS IN LOW-SILICA X ZEOLITE DOPED BY PRESSURE LOADING</b> .....	249
<i>Nguyen Hoang Nam, Tatsuya Ohtsu, Takashi Araki, Shingo Araki, Yasuo Nozue</i>	
<b>PERTURBATIVE THEORY OF THE NON-EQUILIBRIUM SINGLET-TRIPLET TRANSITION</b> .....	253
<i>B Horváth, B Lazarovits, G Zaránd</i>	
<b>ANISOTROPIC MAGNETORESISTANCE AND COLLAPSE OF THE ENERGY GAP IN <math>YB_{1-x}Lu_xB_{12}</math></b> .....	257
<i>F Iga, K Suga, K Takeda, S Michimura, K Murakami, T Takabatake, K Kindo</i>	
<b>SEARCH FOR HIDDEN ORDER PARAMETER OF <math>URu_2Si_2</math> BY NEUTRON-SCATTERING EXPERIMENT UNDER UNIAXIAL STRESS</b> .....	261
<i>Yoichi Ikeda, Makoto Yokoyama, Daichi Nishikawa, Hiroyuki Hidaka, Tatsuya Yanagisawa, Kenichi Tenya, Shuzo Kawarazaki, Taku J Sato, Hideki Yoshizawa, Hiroshi Amitsuka</i>	
<b>ORIGIN OF ANOMALOUS SPECIFIC HEAT COEFFICIENT OF <math>YBaAl_3</math></b> .....	265
<i>Yoshiki Imai, Tetsuro Saso</i>	
<b>ELECTRICAL RESISTIVITY AND THERMAL EXPANSION INVESTIGATION OF GOLDEN SMS UNDER PRESSURE</b> .....	269
<i>Keiichiro Imura, Kazuyuki Matsubayashi, Hiroyuki S Suzuki, Kazuhiko Deguchi, Noriaki K Sato</i>	
<b>OPTICAL STUDY ON STRONGLY CORRELATED ELECTRON SYSTEM <math>LiV_2O_4</math></b> .....	273
<i>Akinori Irizawa, Kotaro Shimai, Takao Namba, Seiji Niitaka, Hidenori Takagi</i>	
<b>THERMOELECTRIC POWER OF <math>PRMg_3</math></b> .....	277
<i>Yosikazu Isikawa, Kazuya Somya, Huruo Koyanagi, Toshio Mizushima, Tomohiko Kuriwai, Takashi Tayama</i>	
<b>LOW-ENERGY EXCITATIONS PROBED BY <math>^{51}V</math> NMR IN THE MULTIFERROIC <math>Ni_3V_2O_8</math></b> .....	281
<i>Tatsuro Esaki, Yasuhiro Shimizu, Tsuyoshi Takami, Masayuki Itoh, Zhangzhen He, Yutaka Ueda</i>	
<b>TEMPERATURE EVOLUTION OF CRYSTAL FIELD SPLITTING IN PR-FILLED SKUTTERUDITE</b> .....	285
<i>K Iwasa, K Saito, Y Murakami, H Sugawara</i>	
<b>CORRELATION BETWEEN THE NUCLEATION OF A GRIFFITHS-LIKE PHASE AND COLOSSAL MAGNETORESISTANCE ACROSS THE COMPOSITIONAL METAL-INSULATOR BOUNDARY IN <math>La_{1-x}Ca_xMnO_3</math></b> .....	289
<i>Wanjuan Jiang, Xuezhi Zhou, R Privezentsev, Y Mukovskii, Gwyn Williams</i>	
<b>OBSERVED AND CALCULATED ENERGY SPECTRA OF BRAGG-FORBIDDEN REFLECTIONS IN <math>YVO_3</math></b> .....	293
<i>R D Johnson, T A W Beale, Y Joly, S R Bland, P D Hatton, C Mazzoli, L Bouchenoire, D Prabhakaran, A T Boothroyd</i>	
<b>MAGNETIC ANISOTROPY IN SINGLE CRYSTALLINE <math>CEAU_2In_4</math></b> .....	297
<i>Devang A Joshi, P Manfrinetti, S K Dhar, A Thamizhavel</i>	
<b>NON LOCAL THEORY OF EXCITATIONS APPLIED TO THE HUBBARD MODEL</b> .....	301
<i>Y Kakehashi, T Nakamura, P Fulde</i>	
<b>QUANTUM CRITICALITY IN A URANIUM HEAVY FERMION SYSTEM REVEALED WITH NMR SPIN-SPIN RELAXATION</b> .....	305
<i>S Kambe, H Sakai, Y Tokunaga, T D Matsuda, Y Haga, H Yasuoka, H Chudo, R E Walstedt</i>	
<b>MAGNETO-ELECTRIC EFFECT IN CHARGE-ORDERED <math>LuFe_2O_4</math></b> .....	309
<i>Takashi Kambe, Takuma Komatsu, Takamasa Michiuchi, Hiroki Hayakawa, Daisuke Ohishi, Noriaki Hanasaki, Kenji Yoshii, Naoshi Ikeda</i>	
<b>ULTRASONIC MEASUREMENT OF <math>\beta</math>-TYPE PYROCHLORE OXIDE <math>KOs_2O_6</math></b> .....	313
<i>Ryosuke Kamiya, Masa hito Yoshizawa, Yoshiki Nakanishi, Mitsuteru Nakamura, Jun-Ichi Yamaura, Zenji Hiroi</i>	
<b>MAGNETIZATION MEASUREMENTS UNDER PRESSURE FOR THE HEAVY-FERMION COMPOUNDS <math>CE(Ru_{0.9}Rh_{0.1})_2(Si_{1-y}Ge_y)_2</math></b> .....	317
<i>Chikahide Kanadani, Toshiaki Saito, Yoshikazu Tabata</i>	
<b>FORMATION OF MAGNETIC POLARONS IN LIGHTLY CA DOPED <math>LACOO_3</math></b> .....	321
<i>V Kataev, A Alfonsov, E Vavilova, A Podlesnyak, D I Khomskii, B Büchner</i>	
<b>CHECKERBOARD-LIKE BOUND STATES AROUND A VORTEX IN HIGH-TC CUPRATE SUPERCONDUCTORS</b> .....	325
<i>Masaru Kato, Satoshi Tomita, Kazumi Maki</i>	
<b>HIGH PRESSURE ELECTRICAL RESISTIVITY OF <math>CECuAl_3</math></b> .....	329
<i>Yukihiro Kawamura, Takashi Nishioka, Harukazu Kato, Masahiro Matsumura, Kazuyuki Matsubayashi, Yoshiya Uwatoko</i>	

<b>LOW-TEMPERATURE THERMODYNAMICS OF THE HEAVY-FERMION METAL <math>\text{YBRH}_2(\text{SI}_{1-x}\text{GE}_x)_2</math> WITHIN A TOPOLOGICAL SCENARIO FOR THE QUANTUM CRITICAL POINT</b> .....	333
<i>V A Khodel, J W Clark, M V Zverev</i>	
<b>PRESSURE EFFECT ON MAGNETIC PROPERTIES OF A WEAK FERROMAGNET <math>\text{BAIRO}_3</math></b> .....	337
<i>Takanori Kida, Atsuko Senda, Shunsuke Yoshii, Masayuki Hagiwara, Tomohito Nakano, Ichiro Terasaki</i>	
<b>THERMODYNAMIC AND TRANSPORT PROPERTIES OF INFINITE U HUBBARD MODEL</b> .....	341
<i>R Kishore, A K Mishra</i>	
<b>SPATIAL FLUCTUATIONS IN TWO-ORBITAL HUBBARD MODEL</b> .....	345
<i>Tomoko Kita, Takuma Ohashi, Sei-Ichiro Suga</i>	
<b>NOVEL SUPERCONDUCTIVITY IN <math>\text{CEIR}(\text{IN}_{1-x}\text{CD}_x)_5</math> STUDIED BY IN-NQR MEASUREMENTS</b> .....	349
<i>M Yashima, S Taniguchi, N Tagami, H Mukuda, Y Kitaoka, Y Ota, H Shishido, R Settai, Y Onuki</i>	
<b>THERMAL EXPANSION OF RFEASO (R=LA,CE,PR,SM,GD)</b> .....	353
<i>R Klingeler, L Wang, U Köhler, G Behr, C Hess, B Büchner</i>	
<b>MAGNETIC FIELD DEPENDENCE OF THE ANTIFERROMAGNETIC PHASE TRANSITIONS IN CO-DOPED <math>\text{YBRH}_2\text{SI}_2</math></b> .....	357
<i>Christoph Klingner, Cornelius Krellner, Christoph Geibel</i>	
<b>EXTRAORDINARY HALL EFFECT IN <math>\text{Ba}_{1-x}\text{SR}_x\text{RUO}_3</math></b> .....	361
<i>Y Kobayashi, M Iwata, T Kaneko, K Sato, K Asai</i>	
<b>MAGNETIC AND TRANSPORT PROPERTIES IN <math>\text{Ba}_{1-x}\text{SR}_x\text{RUO}_3</math> SINGLE CRYSTALS</b> .....	365
<i>Y Kobayashi, T Kaneko, K Asai</i>	
<b>MAGNETIC PROPERTIES AND SUBSTITUTION EFFECT OF PR FOR <math>\text{Ce}_3\text{Al}_{11}</math></b> .....	369
<i>R Kobayashi, T Nishioka, H Kato, M Matsumura, K Kodama</i>	
<b>SELF-ORGANIZED CRITICALITY IN SUPERFERROMAGNETS</b> .....	373
<i>V N Kondratyev, Ph Blanchard</i>	
<b>THE INTERSITE INTERACTIONS IN THE PROBLEM OF ENERGY STRUCTURE OF THE STRONGLY CORRELATED ELECTRON SYSTEMS</b> .....	377
<i>V V Val'Kov, M M Korovushkin</i>	
<b><math>^{103}\text{RH-NMR}</math> STUDIES IN THE SUPERCONDUCTOR <math>\text{RH}_{17}\text{S}_{15}</math></b> .....	381
<i>T Koyama, K Kanda, K Ueda, T Mito, T Kohara, H Nakamura</i>	
<b>SPECIFIC HEAT OF ALUMINIUM-DOPED SUPERCONDUCTING SILICON CARBIDE</b> .....	385
<i>M Kriener, T Muranaka, Y Kikuchi, J Akimitsu, Y Maeno</i>	
<b>ANTIFERROMAGNETISM WITH FERRO-ORBITAL ORDER IN FE Pnictides</b> .....	389
<i>Katsunori Kubo, Peter Thalmeier</i>	
<b>FRUSTRATED ANTIFERROMAGNET YBAGGE UNDER MAGNETIC FIELDS AND PRESSURES</b> .....	393
<i>Hirokazu Kubo, Kazunori Umeo, Kenichi Katoh, Akira Ochiai, Toshiro Takabatake</i>	
<b>PHASE DIAGRAM OF <math>\text{SM}_{1-x}\text{SR}_x\text{MNO}_3</math> PEROVSKITE MANGANITES</b> .....	397
<i>A I Kurbakov, A V Lazuta, V A Ryzhov</i>	
<b>EFFECT OF CR-DOPING ON MAGNETIC PHASE SEPARATION IN <math>\text{Bi}_{0.5}\text{Ca}_{0.5}\text{MNO}_3</math></b> .....	402
<i>Joji Kurian, R Singh</i>	
<b>CRYSTAL FIELD EXCITATIONS IN <math>\text{PRFe}_4\text{SB}_{12}</math> SYNTHESIZED UNDER HIGH PRESSURE</b> .....	407
<i>K Kuwahara, K Tanaka, T Saito, S Tatsuoka, K Iwasa, M Watanabe, Y Aoki, H Sato, M Kohgi, K Iwasa, H Sugawara, C Stock, D T Adroja</i>	
<b>STRUCTURAL MODULATION AND MULTIPOLAR ORDERING IN THE METAL-NONMETAL COMPOUNDS <math>\text{PR}(\text{RU}_{1-x}\text{RH}_x)_4\text{P}_{12}</math></b> .....	411
<i>C Laulhé, K Saito, K Iwasa, H Nakao, Y Murakami</i>	
<b>LARGE ANISOTROPY IN THE MAGNETODIELECTRIC EFFECT OF ORTHORHOMBIC <math>\text{HoMnO}_3</math> THIN FILMS</b> .....	415
<i>S-H Lee, M-H Jung, C-H Yang, T Y Koo, Y H Jeong</i>	
<b>MAGNETIC PROPERTIES OF <math>\text{GDBaCO}_2\text{O}_{5.5-6}</math> SINGLE CRYSTALS</b> .....	419
<i>Da-Qian Liao, M R Lees, G Balakrishnan, D Mck Paul</i>	
<b>MAGNETIC RESPONSE AND CRITICAL CURRENT PROPERTIES OF MESOSCOPIC-SIZE YBCO SUPERCONDUCTING SAMPLES</b> .....	423
<i>P N Lisboa-Filho, C V Deimling, W A Ortiz</i>	
<b>MAGNETIC SUSCEPTIBILITY, PHONONS AND DIELECTRIC CONSTANT OF SINGLE CRYSTALLINE <math>\text{BiFeO}_3</math></b> .....	427
<i>Jun Lu, M Schmidt, P Lunkenheimer, A Pimenov, A A Mukhin, V D Travkin, A Loidl</i>	
<b>COHERENT ACOUSTIC PHONONS IN HEXAGONAL <math>\text{HoMnO}_3</math> PROBED BY FEMTOSECOND SPECTROSCOPY</b> .....	431
<i>C W Luo, H C Shih, K H Wu, J-Y Lin, J Y Juang, T M Uen, T Kobayashi, J M Lee, J M Chen</i>	
<b>PROPERTIES OF THE ONE-DIMENSIONAL HALF-FILLED-BAND EXTENDED HUBBARD MODEL</b> .....	434
<i>F O Freire, C A Macedo</i>	
<b>PHOTOINDUCED DYNAMICS IN THE ONE-DIMENSIONAL TWO-ORBITAL DEGENERATE HUBBARD MODEL</b> .....	438
<i>Nobuya Maeshima, Kenji Yonemitsu, Ken-Ichi Hino</i>	
<b>NMR STUDY OF FILLED SKUTTERUDITE <math>\text{NdOS}_4\text{P}_{12}</math></b> .....	442
<i>K Magishi, K Nagata, Y Iwahashi, H Sugawara, T Saito, K Koyama</i>	
<b>THEORETICAL MODELS FOR A COMPLEX MAGNETIC SYSTEM: THE CASE OF <math>\text{CEN}_{1-x}\text{CU}_x</math></b> .....	446
<i>N Marcano, S G Magalhaes, B Coqblin, J C Gómez Sal, J I Espeso, F M Zimmer, J R Iglesias</i>	

<b>PRESSURE-INDUCED VARIATION OF KONDO BEHAVIOR ON THE HEAVY FERMION COMPOUNDS</b>	
<b>YBT<sub>2</sub>ZN<sub>20</sub> (T = CO, RH, IR)</b> .....	450
<i>Kazuyuki Matsubayashi, Yuta Saiga, Takehiko Matsumoto, Yoshiya Uwatoko</i>	
<b>ANISOTROPIC TRANSPORT PROPERTIES OF NPPD<sub>5</sub>AL<sub>2</sub></b> .....	454
<i>Tatsuma D Matsuda, Yoshinori Haga, Dai Aoki, Yoshiya Homma, Naoyuki Tateiwa, Etsuji Yamamoto, Yoshichika Onuki</i>	
<b>TRANSPORT AND MAGNETIC PROPERTIES OF ELECTRON-DOPED MANGANITES CAMN<sub>1-x</sub>SB<sub>x</sub>O<sub>3</sub></b> .....	458
<i>Y Murano, M Matsukawa, S Kobayashi, S Nimori, R Suryanarayanan</i>	
<b>ANOMALOUS BEHAVIOR OF THE DHVA OSCILLATIONS IN CE<sub>x</sub>LA<sub>1-x</sub>RU<sub>2</sub>SI<sub>2</sub></b> .....	462
<i>Y Matsumoto, N Kimura, T Komatsubara, H Aoki, M Kimata, T Terashima, S Uji</i>	
<b>MAGNETIC PROPERTIES OF SR<sub>0.78</sub>Y<sub>0.22</sub>COO<sub>3-δ</sub> UNDER HIGH PRESSURE</b> .....	466
<i>Takahiro Matsunaga, Takanori Kida, Shojiro Kimura, Masayuki Hagiwara, Shin Yoshida, Ichiro Terasaki</i>	
<b>MAGNETOSTRICTION STUDIES ON THE ITINERANT ELECTRON METAMAGNET LACO<sub>9</sub>SI<sub>4</sub></b> .....	470
<i>K-A Lorenzer, H Michor, H Müller, G Hilscher</i>	
<b>MAGNETIC PROPERTIES OF CE<sub>3</sub>PD<sub>20</sub>SI<sub>6</sub> AT VERY LOW TEMPERATURES</b> .....	474
<i>H Mitamura, T Sakuraba, T Tayama, T Sakakibara, S Tsuduku, G Ano, I Ishii, M Akatsu, Y Nemoto, T Goto, A Kikkawa, H Kitazawa</i>	
<b>EFFECT OF MAGNETIC FIELD ON THE TWO VALENCE TRANSITIONS IN EUPTP</b> .....	478
<i>Akihiro Mitsuda, Toshiya Okuma, Hirofumi Wada, Keisuke Sato, Koichi Kindo</i>	
<b>DIELECTRIC RELAXATION IN A NONFERROELECTRIC PHASE OF MAGNETO-ELECTRIC MULTIFERROIC CUFE<sub>2</sub>O<sub>2</sub></b> .....	482
<i>S Mitsuda, M Yamano, K Kuribara, T Nakajima, K Masuda, K Yoshitomi, N Terada, H Kitazawa, K Takenaka, T Takamasu</i>	
<b>QUADRUPOLE ORDER IN CLATHRATE COMPOUND PR<sub>3</sub>PD<sub>20</sub>SI<sub>6</sub></b> .....	486
<i>M Akatsu, S Tsuduku, Y Nemoto, T Goto, I Ishii, K Mitsumoto, G Ano, H Kobayashi, N Takeda, A Dönni, H Kitazawa</i>	
<b>MASS ENHANCEMENT AND REENTRANT GROUND STATE UNDER MAGNETIC FIELD IN HEAVY FERMION SUPERCONDUCTORS</b> .....	490
<i>A Miyake, D Aoki, G Knebel, V Taufour, J Flouquet</i>	
<b>R-SITE RANDOMNESS EFFECT IN DOUBLE-PEROVSKITE RBAMN<sub>2</sub>O<sub>6</sub></b> .....	495
<i>Y Miyauchi, S Fukushima, J Tozawa, M Akaki, H Kuwahara, D Akahoshi</i>	
<b>CHANGE OF LATTICE CONSTANT DUE TO HYBRIDIZATION EFFECT OF A FERROMAGNETIC SEMICONDUCTOR EUO</b> .....	499
<i>H Miyazaki, T Ito, H J Im, K Terashima, T Izuka, S Yagi, M Kato, K Soda, S Kimura</i>	
<b>CROSSING OF THE CRYSTALLINE-ELECTRIC-FIELD AND RATTLING-PHONON EXCITATION ENERGIES IN THE FILLED SKUTTERUDITE SUPERCONDUCTOR PR(OS<sub>1-x</sub>RU<sub>x</sub>)<sub>4</sub>SB<sub>12</sub></b> .....	503
<i>Ryoichi Miyazaki, Yuji Aoki, Daisuke Kikuchi, Hitoshi Sugawara, Hideyuki Sato</i>	
<b>MAGNETIC MEASUREMENTS OF FESE SUPERCONDUCTOR UNDER HIGH PRESSURE</b> .....	508
<i>Kiyotaka Miyoshi, Yuta Takaichi, Eriko Mutou, Kenji Fujiwara, Jun Takeuchi</i>	
<b>HIGH FIELD MAGNETIZATION OF TM<sub>2</sub>ALB<sub>6</sub>, AN ALB<sub>2</sub>-TYPE ANALOGUE COMPOUND</b> .....	512
<i>Takao Mori, Toetsu Shishido, Yoshiyuki Kawazoe, Kazuo Nakajima, Shigeru Okada, Kunio Kudou, Klaus Kiefer, Konrad Siemensmeyer</i>	
<b>DOPING EFFECT ON CHARGE ORDERED STRUCTURE IN RFE<sub>2</sub>O<sub>4</sub> (R=LU AND YB)</b> .....	516
<i>Y Matsuo, S Mori, A Hirata, K Yoshii, N Ikeda</i>	
<b>MAGNETIC PROPERTIES AND FERROMAGNETIC MICROSTRUCTURES IN AL-DOPED LA<sub>1-x</sub>SR<sub>x</sub>MNO<sub>3</sub></b> .....	520
<i>S Mori, K Yoshidome, Y Nagamine, Y Togawa, K Yoshii, K Takenaka</i>	
<b>SUPERCONDUCTIVITY AND FERROMAGNETISM IN CHARGE-ORDERED METALLIC PHASES OF EXTENDED HUBBARD MODELS</b> .....	524
<i>S Morohoshi, Y Fukumoto</i>	
<b>FERROMAGNETIC TRANSITION IN THE DOUBLE-EXCHANGE MODEL ON THE PYROCHLORE LATTICE</b> .....	528
<i>Yukitoshi Motome, Nobuo Furukawa</i>	
<b><sup>57</sup>FE-NMR STUDY ON IRON-OXYPNICTIDE SUPERCONDUCTOR LAFEASO<sub>1-y</sub></b> .....	532
<i>H Mukuda, N Terasaki, M Yashima, Y Kitaoka, K Miyazawa, P M Shirage, S Suzuki, S Miyasaka, S Tajima, H Kito, H Eisaki, A Iyo</i>	
<b>1/F NOISE IN THE QUASI-TWO-DIMENSIONAL ORGANIC SUPERCONDUCTOR β''-(ET)<sub>2</sub>SF<sub>5</sub>CH<sub>2</sub>CF<sub>2</sub>SO<sub>3</sub></b> .....	536
<i>Jens Müller, Jens Brandenburg, John A Schlueter, Gary L Gard</i>	
<b>EFFECT OF RARE EARTH DOPING ON BIFE<sub>2</sub>O<sub>3</sub> MAGNETIC AND STRUCTURAL PROPERTIES (LA, GD)</b> .....	540
<i>Julián Andrés Muñoz Cagigas, Dalber Sanchez Candela, Elisa Baggio-Saitovitch</i>	
<b>STRUCTURAL, MAGNETIC, AND DIELECTRIC STUDIES ON RARE EARTH SUBSTITUTED BISMUTH TITANATE BI<sub>2</sub>R<sub>2</sub>TI<sub>3</sub>O<sub>12</sub> (R = ND, SM, EU, GD)</b> .....	544
<i>R Muralidharan, T H Jang, C H Yang, Y H Jeong, S H Kang, W Kim, T Y Koo</i>	
<b>SEMICONDUCTING BEHAVIOUR IN CET<sub>2</sub>AL<sub>10</sub> (T=FE AND RU)</b> .....	548
<i>Yuji Muro, Kiyochiro Motoya, Yuta Saiga, Toshiro Takabatake</i>	
<b>ELASTIC AND THERMAL TRANSPORT PROPERTIES OF (PR<sub>1-x</sub>SM<sub>x</sub>)<sub>0.7</sub>CA<sub>0.3</sub>COO<sub>3</sub> AT METAL-INSULATOR TRANSITION</b> .....	552
<i>Tomoyuki Naito, Hiroko Sasaki, Hiroyuki Fujishiro, Masahito Yoshizawa</i>	
<b>VARIABILITY OF ELECTRICAL RESISTIVITY IN EPITAXIAL GROWN LA<sub>0.5</sub>BA<sub>0.5</sub>MNO<sub>3</sub> PATTERNED MICRO-WIRES</b> .....	556
<i>T Nakajima, T Tsuchiya, Y Ueda, T Kumagai</i>	
<b>ELECTRIC FIELD DEPENDENCE OF MAGNETIC CORRELATION IN MAGNETO-ELECTRIC MULTIFERROIC CUFE<sub>1-x</sub>AL<sub>x</sub>O<sub>2</sub></b> .....	560
<i>T Nakajima, S Mitsuda, K Takahashi, Y Kaneko, T Ito, M Fukunaga, H Kimura, Y Noda</i>	

<b>MÖSSBAUER STUDY ON THE POLAR FERRIMAGNET GAFEO<sub>3</sub></b> .....	564
<i>Shin Nakamura, Shotaro Morimoto, Tadashi Saito, Yorihiro Tsunoda</i>	
<b>TRANSPORT PROPERTIES OF FERROMAGNETIC GRANULAR CO-AL-O FILMS</b> .....	568
<i>S Nakamura, T Iwashita, T Nojima, A Yoshihara, S Ohnuma, H Fujimori</i>	
<b>ULTRASONIC INVESTIGATION CLOSE TO QUANTUM CRITICAL POINT IN YBTR<sub>2</sub>ZN<sub>20</sub> (TR: CO, RH, AND IR)</b> .....	572
<i>Y Nakanishi, T Kamiyama, K Ito, M Nakamura, Y Saiga, M Kosaka, Y Uwatoko, M Yoshizawa</i>	
<b>NONQUASIPARTICLE STATES IN THE HALF-METALLIC FERROMAGNET SIMULATED BY THE TWO-BAND HUBBARD MODEL</b> .....	576
<i>K Nakano, T Shirakawa, Y Ohta</i>	
<b>SYNTHESIS OF GE SUBSTITUTED ILMENITE AND THEIR MAGNETIC AND ELECTRONIC PROPERTIES</b> .....	580
<i>D Nakatsuka, T Fujii, M Nakanishi, J Takada</i>	
<b>TRANSITION FROM WEAK FERROMAGNETISM TO METAMAGNETISM IN THE ITINERANT-ELECTRON SYSTEM Y<sub>1-x</sub>LA<sub>x</sub>CO<sub>3</sub>SI<sub>4</sub></b> .....	584
<i>M Nishiyama, T Kohara, H Nakamura</i>	
<b>EFFECT OF PRESSURE ON THE SUPERCONDUCTIVITY AND MAGNETISM IN HONI<sub>2</sub>B<sub>2</sub>C</b> .....	588
<i>Masatoshi Nobori, Tomohito Nakano, Gendo Oomi, P C Canfield, B K Cho</i>	
<b>MAGNETIC PROPERTIES OF CET<sub>x</sub>GA<sub>4-x</sub> (T=CU, AG) SINGLE CRYSTALS</b> .....	592
<i>Kenta Oe, Yukihiko Kawamura, Takashi Nishioka, Harukazu Kato, Masahiro Matsumura, Kazuto Kodama</i>	
<b>THERMOPOWER OF CE<sub>1-x</sub>LA<sub>x</sub>TIGE WITH HIGHLY DEGENERATE ORBITAL GROUND STATE</b> .....	596
<i>N Oeschler, M Deppe, S Hartmann, N Caroca-Canales, C Geibel, F Steglich</i>	
<b>MULTIFERROIC BEHAVIOUR IN SM<sub>1-x</sub>Y<sub>x</sub>MNO<sub>3</sub></b> .....	600
<i>D O'Flynn, C V Tomy, M R Lees, G Balakrishnan</i>	
<b>PRESSURE EFFECTS ON MAGNETIC SUSCEPTIBILITY OF INTERMEDIATE-VALENCE COMPOUND YBAL<sub>3</sub></b> .....	604
<i>S Ohara, Y Adachi, T Yamashita, I Sakamoto</i>	
<b>PRESSURE EFFECT ON IRON-BASED SUPERCONDUCTORS CA(Fe<sub>1-x</sub>CO<sub>x</sub>)ASF</b> .....	608
<i>Hironari Okada, Hiroyuki Takahashi, Hiroki Takahashi, Satoru Matsuishi, Masahiro Hirano, Hideo Hosono</i>	
<b>CHARGE-SPIN-ORBITAL DYNAMICS OF ONE-DIMENSIONAL TWO-ORBITAL HUBBARD MODEL</b> .....	612
<i>Hiroaki Onishi</i>	
<b>GATE CONTROLLED NARROWING OF THE QUANTUM HALL EFFECT PLATEAU TRANSITIONS</b> .....	616
<i>Josef Oswald, Christoph Uiberacker</i>	
<b>MICROWAVE ABSORPTION STUDY OF POLYCRYSTALLINE SMO<sub>1-x</sub>F<sub>x</sub>FEAS</b> .....	620
<i>N Yu Panarina, Yu I Talanov, T S Shaposhnikova, N R Beysengulov, E L Vavilova, V E Kataev, G Behr, A Kondrat, C Hess, N Leps, R Klingeler, B Büchner</i>	
<b>PRESSURE DEPENDENCE OF BANI<sub>2</sub>AS<sub>2</sub></b> .....	624
<i>T Park, H Lee, E D Bauer, J D Thompson, F Ronning</i>	
<b>ANISOTROPY OF THE KONDO INSULATOR CERU<sub>4</sub>SN<sub>6</sub></b> .....	628
<i>S Paschen, H Winkler, T Nezu, M Kriegtsch, G Hilscher, J Custers, A Prokofiev, A Strydom</i>	
<b>H - T PHASE DIAGRAM OF YBCO<sub>2</sub>SI<sub>2</sub> WITH H // [100]</b> .....	632
<i>J Pedrero, M Brando, C Klingner, C Krellner, C Geibel, F Steglich</i>	
<b>MAGNETIC PHASES OF THE TWO ORBITAL HUBBARD MODEL IN DYNAMICAL MEAN FIELD THEORY</b> .....	636
<i>R Peters, T Pruschke</i>	
<b>SPIN WAVES AND METALLIC STATE OF MAGNETORESISTIVE MANGANITES</b> .....	640
<i>S Petit, M Hennion, F Moussa, D Lamago, A Ivanov, Y Mukovskii</i>	
<b>CRYSTAL FIELD STUDIES ON THE HEAVY FERMION COMPOUND CENI<sub>8</sub>CUGE<sub>4</sub></b> .....	644
<i>L Peyker, C Gold, E-W Scheidt, H Michor, T Unruh, A Senyshyn, O Stockert, W Scherer</i>	
<b>LOW TEMPERATURE AC SUSCEPTIBILITY OF UCOGE CRYSTALS</b> .....	648
<i>Jan Prokleška, Jiri Pospíšil, Jana Vejpravová Poltierová, Vladimír Sechovský, Josef Šebek</i>	
<b>SUPERCONDUCTIVITY IN THE KONDO LATTICE MODEL</b> .....	652
<i>O Bodensiek, T Pruschke, R Žitko</i>	
<b>BEYOND GAUSSIAN APPROXIMATION IN THE SPIN-FLUCTUATION THEORY OF METALLIC FERROMAGNETISM</b> .....	656
<i>B I Reser, N B Melnikov, V I Grebennikov</i>	
<b>EFFECT OF ELECTRONIC CORRELATIONS ON THE QUASIPARTICLE DISPERSION OF USB<sub>2</sub></b> .....	660
<i>Xiaodong Yang, Peter S Riseborough, Tomasz Durakiewicz, P M Oppeneer, S Elgazzar</i>	
<b>DISTRIBUTION OF LATTICE CONSTANTS IN CEPT<sub>3</sub>SI OBSERVED BY LARMOR DIFFRACTION AND SANS</b> .....	664
<i>R Ritz, S Mühlbauer, C Pfeleiderer, T Keller, J White, M Laver, E M Forgan, R Cubitt, C Dewhurst, P G Niklowitz, A Prokofiev, E Bauer</i>	
<b>NEUTRON DIFFRACTION STUDY OF THE HIGH MAGNETIC FIELD PHASE DIAGRAM OF LA-DOPED PRB<sub>6</sub></b> .....	668
<i>Julien Robert, Jean-Michel Mignot, M Sera, F Iga</i>	
<b>PRESSURE EFFECTS ON THE ANTIFERROMAGNETIC ORDER OF THE HYDRIDE CERUSIH</b> .....	672
<i>J Rodriguez Fernández, D P Rojas, J C Gómez Sal, S Tencé, B Chevalier</i>	
<b>INTERACTING MAGNETIC SUBLATTICES AND FERRIMAGNETISM IN SR-DOPED DYMNO<sub>3</sub></b> .....	676
<i>S Rößler, S Harikrishnan, U K Rößler, Sujia Elizabeth, H L Bhat, F Steglich, S Wirth</i>	



<b>THERMAL EXPANSION OF THE SPIN-<math>\frac{1}{2}</math> HEISENBERG-CHAIN COMPOUND <math>\text{Cu}(\text{C}_4\text{H}_4\text{N}_2)(\text{NO}_3)_2</math></b> .....	680
<i>J Rohrkamp, M D Phillips, M M Turnbull, T Lorenz</i>	
<b>RH-SUBSTITUTION EFFECT ON 4f-ELECTRON STATES IN MULTIPOLE ORDERED PHASE OF <math>\text{PRR}_4\text{P}_{12}</math></b> .....	684
<i>Kotaro Saito, Claire Laulhé, Kazuaki Iwasa, Youichi Murakami</i>	
<b>LOW-TEMPERATURE MAGNETIZATION OF <math>\text{PRMG}_3</math> WITH A <math>\Gamma_3</math> NON-KRAMERS DOUBLET GROUND STATE</b> .....	688
<i>T Sakakibara, T Morie, H S Suzuki, H Tanida, S Takagi, T Onimaru</i>	
<b>A NEW HALF-METALLIC FERROMAGNET <math>\text{K}_2\text{CR}_8\text{O}_{16}</math> PREDICTED BY AN AB-INITIO ELECTRONIC STRUCTURE CALCULATION</b> .....	692
<i>M Sakamaki, T Konishi, T Shirakawa, Y Ohta</i>	
<b><math>^{29}\text{Si}</math> NMR STUDY OF THE HEAVY FERMION SYSTEM CERUSI</b> .....	696
<i>Rajib Sarkar, Michael Baenitz, Julian Sereni, Cristoph Geibel</i>	
<b>PHASE SEPARATION IN STRONGLY CORRELATED ELECTRON SYSTEMS WITH SPIN-STATE TRANSITIONS</b> .....	701
<i>A O Sboychakov, K I Kugel, A L Rakhmanov, D I Khomskii</i>	
<b>INFLUENCE OF IMPURITY SCATTERING ON DRUDE RESPONSE IN HEAVY-FERMION <math>\text{UPd}_2\text{Al}_3</math></b> .....	705
<i>Marc Scheffler, Martin Dressel, Martin Jourdan</i>	
<b>EVOLUTION OF SINGLE-ION CRYSTAL FIELD AND KONDO FEATURES IN <math>\text{Ce}_{0.5}\text{La}_{0.5}\text{Ni}_{9-x}\text{Cu}_x\text{Ge}_4</math></b> .....	709
<i>L Peyker, C Gold, E-W Scheldt, H Michor, W Scherer</i>	
<b>CHARGE-ORDER IN THE QUASI-CUBIC MANGANITES</b> .....	713
<i>P Schlottmann</i>	
<b>GROWTH OF <math>\text{Sr}_{1-x}\text{Ca}_x\text{RuO}_3</math> THIN FILMS BY METALORGANIC AEROSOL DEPOSITION</b> .....	717
<i>M Schneider, V Moshnyaga, P Gegenwart</i>	
<b>FREEZING OF SPIN DYNAMICS AND <math>\omega/T</math> SCALING IN UNDERDOPED CUPRATES</b> .....	721
<i>Igor Sega, Peter Prelovšek</i>	
<b>SUPERCONDUCTIVITY OF COMPRESSED IRON: LOW TEMPERATURE ELECTRICAL TRANSPORT BEHAVIOUR</b> .....	725
<i>K Sengupta, P Pedrazzini, D Jaccard</i>	
<b>CERUGE AND CERUSI: HEAVY FERMION SYSTEMS WITH SOME UNUSUAL FEATURES</b> .....	728
<i>J G Sereni, N Caroca-Canales, M Kumar, N Oeschler, M Gomez Berisso, C Geibel</i>	
<b>PHYSICAL PROPERTIES OF THE NEW CAGE COMPOUND <math>\text{Ce}_4\text{Pt}_{12}\text{Sn}_{25}</math></b> .....	732
<i>L Shafeek, S Laumann, A Prokofiev, S Paschen</i>	
<b>EVOLUTION OF THE SUPERCONDUCTING TRANSITION TEMPERATURE UPON A SUBSTITUTION OF PD BY PT IN <math>\text{Li}_2(\text{PD}_{1-x}\text{PT}_x)_3\text{B}</math> (<math>x = 0-1</math>)</b> .....	736
<i>Sk Md Shamsuzzaman, Y Inada, S Sasano, S Harada, Zheng Guo-Qing</i>	
<b>EXCITATIONS NEAR THE BOUNDARY BETWEEN A METAL AND A MOTT INSULATOR</b> .....	740
<i>A Sherman, M Schreiber</i>	
<b>MAGNETIC PROPERTIES OF THE SODIUM-OSMIUM-OXIDE PYROCHLORE</b> .....	744
<i>Y G Shi, A A Belik, M Tachibana, M Tanaka, Y Katsuya, K Kobayashi, K Yamaura, E Takayama-Muromachi</i>	
<b>A <math>^{63}\text{Cu}</math>-NMR STUDY ON FOUR-LAYERED HIGH-<math>T_c</math> SUPERCONDUCTORS <math>\text{Ba}_2\text{Ca}_3\text{Cu}_4\text{O}_8(\text{F}_y\text{O}_{1-y})_2</math></b> .....	748
<i>S Shimizu, H Mukuda, Y Kitaoka, H Kito, Y Kodama, P M Shirage, A Iyo</i>	
<b>ROTATION OF HYPERFINE FIELDS AT THE V SITE IN THE MULTIBAND METAL <math>\text{K}_2\text{V}_8\text{O}_{16}</math></b> .....	752
<i>Yasuhiro Shimizu, Katsunori Okai, Masayuki Itoh, Masahiro Isobe, Jun-Ichi Yamaura, Yutaka Ueda</i>	
<b>EXCHANGE BIAS-LIKE PROPERTIES IN <math>\text{Sr}_2\text{YRuO}_6</math></b> .....	756
<i>Ravi P Singh, C V Tomy, A K Grover</i>	
<b>MAGNETIC ANISOTROPY IN THE AFM AND SDW PHASES OF <math>\text{CeB}_6</math></b> .....	761
<i>N E Sluchanko, A V Bogach, V V Glushkov, S V Demishev, V Yu Ivanov, V B Filipov, N Yu Shitsevalova</i>	
<b>INELASTIC NEUTRON SCATTERING AND SPECIFIC HEAT OF CECUGE</b> .....	765
<i>B M Sondezi-Mhlungu, D T Adroja, A M Strydom, W Kockelmann, E A Goremychkin</i>	
<b>LOW-TEMPERATURE DENSITY MATRIX RENORMALIZATION GROUP STUDY ON SPIN-1/2 FRUSTRATED SPIN CHAINS</b> .....	769
<i>Shigetoshi Sota, Takami Tohyama</i>	
<b>MAGNETOTRANSPORT MEASUREMENTS ON <math>\text{Nd}_{1-x}\text{Ca}_x\text{B}_6</math></b> .....	773
<i>Jolanta Stankiewicz, Andrea D Bianchi, Zachary Fisk</i>	
<b>ELECTRICAL AND MAGNETIC PROPERTIES OF <math>(\text{Sr}_{1-x}\text{R}_x\text{F})\text{FeAs}</math> (<math>\text{R} = \text{La}, \text{Nd}</math>)</b> .....	777
<i>Ryosuke Sugauma, Xinzhe Jin, Tadataka Watanabe, Kouichi Takase, Yoshiki Takano</i>	
<b>SUPERCONDUCTING PHASE DIAGRAM OF NONCENTROSYMMETRIC HEAVY-FERMION SUPERCONDUCTOR <math>\text{CeRHSI}_3</math></b> .....	781
<i>T Sugawara, N Kimura, H Aoki, T Terashima, F Levy, I Sheikin</i>	
<b>MOMENTUM-DEPENDENT SUPERCONDUCTING ORDER IN A ONE-DIMENSIONAL FERMION SYSTEM</b> .....	785
<i>E Szirmai, J Sólyom</i>	
<b>ELECTRICAL RESISTIVITY MEASUREMENTS UNDER HIGH PRESSURE FOR <math>\text{FETe}_{0.92}</math></b> .....	789
<i>Hiroyuki Takahashi, Hironari Okada, Hiroki Takahashi, Yoshikazu Mizuguchi, Yoshihiko Takano</i>	
<b><math>^{59}\text{Co}</math> NMR STUDY ON LOCAL MAGNETIC PROPERTIES OF <math>\text{Ca}_{1-x}\text{Na}_x\text{CO}_2\text{O}_4</math></b> .....	793
<i>Tsuyoshi Takami, Masayuki Itoh, Masaaki Isobe, Masao Arai, Tetsuya Kawashima, Eiji Takayama-Muromachi</i>	
<b>ANISOTROPY IN THE MAGNETIZATION AND RESISTIVITY OF THE METALLIC TRIANGULAR-LATTICE MAGNET <math>\text{PDCrO}_2</math></b> .....	797
<i>H Takatsu, S Yonezawa, C Michioka, K Yoshimura, Y Maeno</i>	

<b>ELECTRONIC STATES OF MAGNETIC REFRIGERATOR MATERIALS <math>MN_{0.9}FE_{1.1}P_{0.55}AS_{0.45}</math> USING SOFT X-RAY MAGNETIC CIRCULAR DICHROISM</b> .....	801
<i>Y Takeda, T Okane, T Ohkochi, S-I Fujimori, Y Saitoh, H Yamagami, H Yabuta, T Takabatake</i>	
<b>LOCAL MAGNETIC PROPERTIES OF <math>NA_{1-x}CA_xV_2O_4</math> WITH DOUBLE CHAINS INVESTIGATED BY <math>^{51}V</math> NMR</b> .....	805
<i>Hikaru Takeda, Masayuki Itoh, Hiroya Sakurai</i>	
<b>SEMICONDUCTING BEHAVIOR IN <math>CEFE_2AL_{10}</math> AND <math>CERU_2AL_{10}</math> SINGLE CRYSTALS</b> .....	809
<i>Tomoaki Takesaka, Kenta Oe, Riki Kobayashi, Yukihiko Kawamura, Takashi Nishioka, Harukazu Kato, Masahiro Matsumura, Kazuto Kodama</i>	
<b>PRESSURE INVESTIGATION OF SUPERCONDUCTIVITY OF <math>V_3SI</math></b> .....	813
<i>Shigeki Tanaka, Atsushi Miyake, B Salce, D Braithwaite, Tomoko Kagayama, Katsuya Shimizu</i>	
<b>CONTROL OF THE ELECTRIC POLARIZATION FLOP DIRECTION BY A CANTED MAGNETIC FIELD IN A MAGNETOELECTRIC MULTIFERROIC <math>MNWO_4</math></b> .....	816
<i>K Taniguchi, N Abe, H Umetsu, T Arima</i>	
<b>ELECTRICAL AND THERMODYNAMICS PROPERTIES OF <math>RE_8PD_{24}SN</math></b> .....	820
<i>M B Tchoula Tchokonté, P De V Du Plessis, D Kaczorowski, A M Strydom</i>	
<b>MAGNETIZATION STUDY ON THE FIELD-INDUCED QUANTUM CRITICAL POINT IN <math>YBRH_2SI_2</math></b> .....	824
<i>Y Tokiwa, C Geibel, F Steglich, P Gegenwart</i>	
<b>HIGH-FIELD STUDY OF MULTIFERROIC <math>BIFEO_3</math></b> .....	828
<i>M Tokunaga, M Azuma, Y Shimakawa</i>	
<b>KINKS: FINGERPRINTS OF STRONG ELECTRONIC CORRELATIONS</b> .....	832
<i>A Toschi, M Capone, C Castellani, K Held</i>	
<b>SPECTRAL PROPERTIES OF THE MOTT HUBBARD INSULATOR <math>(CR_{0.011}V_{0.989})_2O_3</math> CALCULATED BY LDA+DMFT</b> .....	836
<i>A Toschi, P Hansmann, G Sangiovanni, T Saha-Dasgupta, O K Andersen, K Held</i>	
<b>A-SITE SUBSTITUTION EFFECT ON PHYSICAL PROPERTIES OF <math>SR_3FE_{2-x}CO_xO_{7-D}</math></b> .....	840
<i>J Tozawa, M Akaki, D Akahoshi, H Kuwahara, K Itatani</i>	
<b>MAGNETIC TRANSITION ANISOTROPIES IN ORTHORHOMBIC <math>LUMNO_3</math> AND <math>HOMNO_3</math> MULTIFERROIC THIN FILMS</b> .....	844
<i>T Y Tsai, T H Lin, S Slowry, C W Luo, K H Wu, J-Y Lin, T M Uen, J Y Juang</i>	
<b>PRESSURE EFFECT ON MAGNETIZATION IN QUASI-1D DOUBLE-CHAIN MATERIAL <math>NAV_2O_4</math></b> .....	848
<i>K F Tseng, C J Ho, C C Chou, C L Huang, H Sakurai, H D Yang</i>	
<b>NONEQUILIBRIUM STEADY STATES IN CORRELATED ELECTRON SYSTEMS — PHOTOINDUCED INSULATOR-METAL TRANSITION AND OPTICAL RESPONSE</b> .....	852
<i>Naoto Tsuji, Takashi Oka, Hideo Aoki</i>	
<b>RARE-EARTH ATOM MOTIONS IN <math>RO_{34}SB_{12}</math> (R = LA, PR, ND, SM)</b> .....	856
<i>S Tsutsui, H Uchiyama, J P Sutter, A Q R Baron, H Sugawara, J Yamaura, Z Hiroi, A Ochiai, H Sato</i>	
<b>CHIRALITY-SPIN SEPARATION IN THE HUBBARD MODEL ON THE KAGOME LATTICE</b> .....	861
<i>Masafumi Udagawa, Yukitoshi Motome</i>	
<b>PRESSURE-INDUCED TRANSITION FROM A CANTED ANTIFERROMAGNETIC STATE TO A FERROMAGNETIC STATE IN <math>YBRHSB</math></b> .....	865
<i>K Umeo, H Yamane, H Kubo, Y Muro, T Takabatake</i>	
<b>THERMAL FLUCTUATIONS AND COHERENCE TRANSITION IN SUPERCONDUCTOR-ISOLATOR COMPOSITES</b> .....	869
<i>M A Uribe Laverde, D A Landinez Téllez, J Roa-Rojas</i>	
<b>THE EFFECT OF SPIN CORRELATIONS ON A SUPERCONDUCTING PHASE OF THE SPIN POLARONS IN 2D KONDO LATTICE</b> .....	873
<i>V V Val'Kov, A A Shklyayev, A F Barabanov</i>	
<b>FRUSTRATED MAGNET <math>LI_2ZRCUO_4</math> – PARAMAGNETISM MEETS PARAELECTRICITY</b> .....	877
<i>E Vavilova, Y Arango, A Sotnikov, V Kataev, S-L Drechsler, A S Moskvina, Z Vasiliev, O Volkova, B Büchner</i>	
<b>TWO-DIMENSIONAL ORBITAL ORDERING IN <math>D^1</math> MOTT INSULATOR <math>SR_2VO_4</math></b> .....	881
<i>R Viennois, E Giannini, J Teyssier, J Elia, J Deisenhofer, D Van Der Marel</i>	
<b>THE CHEMICAL SUBSTITUTION INFLUENCE ON THERMOPOWER IN <math>YB_{1-x}CE_xINCU_4</math></b> .....	885
<i>T Voloshok, V Pryadun, N Mushnikov, A Vasiliev</i>	
<b>GROUND STATE PROPERTIES OF RANDOMLY-DOPED KONDO LATTICE MODEL</b> .....	889
<i>Hiroshi Watanabe, Masao Ogata</i>	
<b>TRANSPORT PROPERTIES IN FILLED SKUTTERUDITE <math>GDRU_4P_{12}</math></b> .....	893
<i>M Watanabe, K Tanaka, S Tatsuoaka, T Saito, R Miyazaki, K Takeda, T Namiki, K Kuwahara, R Higashinaka, Y Aoki, H Sato</i>	
<b>POSSIBLE METAL-INSULATOR TRANSITION IN THE FILLED SKUTTERUDITE <math>CEFE_4AS_{12}</math></b> .....	897
<i>R Wawryk, Z Henkie, A Pietraszko, T Cichorek, A Jezierski, R E Baumbach, M B Maple</i>	
<b>EXTENDED X-RAY ABSORPTION FINE STRUCTURE SPECTROSCOPY IN <math>CO_{0.013}NBSE_2</math></b> .....	901
<i>F Weber, J-P Castellán, R Rosenkranz, R Osborn, D Rosenmann, M Iavarone</i>	
<b>COUPLED SPIN S = 1/2 DIMER SYSTEMS BASED ON NITRONYL-NITROXIDE BIRADICALS</b> .....	905
<i>B Wolf, P T Cong, K Removic-Langer, Y D Borozdina, E Mostovich, M Baumgarten, M Lang</i>	
<b>ULTRASONIC INVESTIGATION ON THE DISTORTED DIAMOND CHAIN COMPOUND AZURITE</b> .....	909
<i>P T Cong, B Wolf, U Tutsch, K Removic-Langer, J Schreuer, S Süllow, M Lang</i>	
<b>POLARIZATION-DEPENDENT X-RAY ABSORPTION SPECTROSCOPY OF HEXAGONAL AND ORTHORHOMBIC <math>TBMNO_3</math> THIN FILMS</b> .....	913
<i>K H Wu, I C Gou, C W Luo, T M Uen, J-Y Lin, J Y Juang, T Kobayashi, C K Chen, J M Lee, J M Chen</i>	

<b>EFFECT OF THE SPIN-ORBIT INTERACTION AND THE ELECTRON PHONON COUPLING ON THE ELECTRONIC STATE IN A SILICON VACANCY</b> .....	917
<i>Takemi Yamada, Youichi Yamakawa, Yoshiaki Ono</i>	
<b>ELECTRONIC STRUCTURE ANALYSIS OF UIR USING SOFT X-RAY PHOTOEMISSION SPECTROSCOPY AND BAND CALCULATION</b> .....	921
<i>H Yamagami, T Ohkochi, S-I Fujimori, T Toshimitsu, A Yasui, T Okane, Y Saitoh, A Fujimori, Y Haga, E Yamamoto, S Ikeda, Y Onuki</i>	
<b>STRONGLY CORRELATED ELECTRONIC STATES OF <math>\text{YB}_{1-x}\text{LU}_x\text{B}_{12}</math> AND <math>\text{SMI}_{1-y}\text{EU}_y\text{B}_6</math> STUDIED BY HIGHLY BULK-SENSITIVE PHOTOELECTRON SPECTROSCOPY</b> .....	925
<i>J Yamaguchi, A Sekiyama, S Imada, A Higashiyama, K Tamasaku, M Yabashi, T Ishikawa, T Ito, S Kimura, F Iga, T Takabatake, S Yeo, S-I Lee, H-D Kim, S Suga</i>	

## VOLUME 2

<b>ELECTRON SPIN RESONANCE IN A NEW TRIANGULAR-LATTICE MN LAYERED OXIDE</b> .....	929
<i>H Yamaguchi, S Kimura, M Hagiwara, R Ishii, S Nakatsuji</i>	
<b>SPECIFIC-HEAT STUDY FOR FERROMAGNETIC AND ANTIFERROMAGNETIC PHASES IN <math>\text{SRRU}_{1-x}\text{MNXO}_3</math></b> .....	933
<i>A Yamaji, M Yokoyama, Y Nishihara, Y Narumi, K Kindo</i>	
<b>ANTIFERROMAGNETIC, CHARGE AND ORBITAL ORDER IN <math>\text{Na}_{0.5}\text{COO}_2</math> BASED ON THE TWO DIMENSIONAL 11 BANDS D-P MODEL</b> .....	937
<i>Youichi Yamakawa, Naohiro Watanabe, Yoshiaki Ono</i>	
<b><math>^7\text{Li}</math> AND <math>^{51}\text{V}</math> NMR STUDIES ON LOCAL SYMMETRY AND CHARGE DISPROPORTIONATION IN QUASI-ONE-DIMENSIONAL CONDUCTOR <math>\beta\text{-Li}_{0.33}\text{V}_2\text{O}_5</math></b> .....	941
<i>Ichihiro Yamauchi, Masayuki Itoh, Touru Yamauchi, Jun-Ichi Yamaura, Yutaka Ueda</i>	
<b>EFFECTS OF FERROMAGNETIC FLUCTUATIONS ON THE ELECTRIC AND THERMAL TRANSPORT PROPERTIES IN <math>\text{Na}_x\text{COO}_2</math></b> .....	945
<i>Y Yanagi, Y Ono</i>	
<b>ELASTIC CONSTANTS OF <math>\text{U}(\text{RU}_{1-x}\text{RH}_x)_2\text{SI}_2</math></b> .....	950
<i>T Yanagisawa, H Saito, T Mayama, Y Ikeda, H Hidaka, M Yokoyama, H Amitsuka</i>	
<b>MAGNETIC ORDER AND PROPERTIES IN HEAVY FERMION <math>(\text{Ce}_{1-x}\text{GD}_x)\text{Ni}</math> SINGLE CRYSTAL</b> .....	955
<i>K Yano, Y Tajiri, K Nishimura, Y Isikawa, T Ohta, K Sato</i>	
<b>PRESSURE-TEMPERATURE PHASE DIAGRAM IN <math>\text{Ce}_2\text{RHIn}_8</math> STUDIED BY IN-NQR MEASUREMENTS</b> .....	959
<i>M Yashima, S Taniguchi, H Miyazaki, H Mukuda, Y Kitaoka, H Shishido, R Settai, Y Onuki</i>	
<b>MAGNETIC-FIELD DEPENDENCE OF ANTIFERROMAGNETIC STRUCTURE IN <math>\text{CeRh}_{1-x}\text{Co}_x\text{In}_5</math></b> .....	963
<i>M Yokoyama, Y Ikeda, I Kawasaki, D Nishikawa, K Tenya, K Kuwahara, H Amitsuka</i>	
<b>THERMODYNAMICS OF THE THREE-DIMENSIONAL FALICOV-KIMBALL MODEL</b> .....	967
<i>Martin Žonda, Pavol Farkašovský, Hana Cencariková</i>	

## QUANTUM AND CLASSICAL SPIN SYSTEMS

<b>ANOMALOUS BEHAVIOUR OF THE MAGNETIC SUSCEPTIBILITY OF THE MIXED SPIN-1 AND SPIN-1/2 ANISOTROPIC HEISENBERG MODEL IN THE OGUCHI APPROXIMATION</b> .....	971
<i>Andrej Bobák, Vladislav Pokorný, Ján Dely</i>	
<b>MAGNETIC PROPERTIES OF SMALL MOLECULAR CLUSTERS</b> .....	975
<i>Orion Ciftja</i>	
<b>VORTEX CONTRIBUTION TO THE DEFECT-INDUCED ALTERNATING MAGNETIZATION IN 2D ANTIFERROMAGNETS</b> .....	979
<i>Alessandro Cuccoli, Ruggero Vaia</i>	
<b>MAGNETOELASTIC STUDY IN <math>\text{Lu}_2\text{Fe}_{17}</math></b> .....	983
<i>C De La Fuente, A Del Moral, S Nikitin</i>	
<b>CRITICAL TEMPERATURE OF A MIXED FERRO-FERRIMAGNETIC TERNARY ALLOY</b> .....	987
<i>Ján Dely, Andrej Bobák, Milan Žukovic</i>	
<b>CU-NMR STUDY OF THE QUASI-ONE-DIMENSIONAL MAGNET <math>\text{Cu}_3\text{Mo}_2\text{O}_9</math></b> .....	991
<i>K Doi, T Hamasaki, H Kuroe, T Sekine, T Goto</i>	
<b>A SELF-ENERGY FUNCTIONAL APPROACH FOR SPIN SYSTEMS</b> .....	995
<i>S Filor, T Pruschke</i>	
<b>FIELD-INDUCED QUANTUM PHASE TRANSITIONS IN THE SPIN-1/2 TRIANGULAR-LATTICE ANTIFERROMAGNET <math>\text{Cs}_2\text{CuBR}_4</math></b> .....	999
<i>N A Fortune, S T Hannahs, Y Takano, Y Yoshida, T Sherline, A A Wilson-Muenchow, T Ono, H Tanaka</i>	
<b>HIGH-FIELD MAGNETIZATION AND <math>^1\text{H}</math>-NMR STUDY OF THE DIMER COMPOUND <math>\text{CoSeO}_3 \cdot 2\text{H}_2\text{O}</math></b> .....	1003
<i>Y Fujii, H Kikuchi, T Arai, Y Tanabe, K Kindo, A Matsuo</i>	
<b><math>^{51}\text{V}</math>-NMR STUDY OF HONEYCOMB LATTICE ANTIFERROMAGNET <math>\text{InCu}_{2/3}\text{V}_{1/3}\text{O}_3</math></b> .....	1007
<i>Y Fujii, D Takahashi, Y Kubo, H Kikuchi, A Matsuo, K Kindo, S Okubo, H Ohta</i>	
<b><math>\mu\text{SR}</math> STUDY ON THE GROUND STATE OF BOND-DISORDERED SPIN GAP SYSTEM <math>(\text{CH}_3)_2\text{CHNH}_3\text{Cu}(\text{Cl}_{1-x}\text{BR}_x)_3</math> (<math>x=0.95, 0.88</math>)</b> .....	1011
<i>T Goto, T Suzuki, S Nakajima, K Kanada, T Saito, A Oosawa, I Watanabe, H Luetkens, A Amato</i>	

<b>MULTI-FREQUENCY ESR STUDIES ON A HALDANE MAGNET IN A FIELD-INDUCED PHASE AT ULTRA-LOW TEMPERATURES</b> .....	1015
<i>Masayuki Hagiwara, Takanari Kashiwagi, Yuichi Idutsu, Zentaro Honda, Hiroshi Miyazaki, Isao Harada</i>	
<b>EFFECTS OF MAGNETIC FIELD AND PRESSURE ON THE ANTIFERROMAGNETIC AND WEAK-FERROMAGNETIC ORDERS IN TETRAHEDRAL SPIN CHAIN SYSTEM <math>\text{Cu}_3\text{MO}_2\text{O}_9</math></b> .....	1019
<i>T Hamasaki, H Kuroe, T Sekine, M Akaki, H Kuwahara, M Hase</i>	
<b>NMR RELAXATION IN THE DILUTED ONE-DIMENSIONAL HEISENBERG ANTIFERROMAGNETS</b> .....	1023
<i>T Hamasaki, K Zenmyo, H Kubo</i>	
<b>MAGNETIC STRUCTURE OF <math>\text{Cu}_2\text{CDB}_2\text{O}_6</math> HAVING MAGNETIZATION PLATEAU AND ANTIFERROMAGNETIC LONG-RANGE ORDER</b> .....	1027
<i>Masashi Hase, Andreas Dönni, Vladimir Yu Pomjakushin, Lukas Keller, Fabia Gozzo, Antonio Cervellino, Masanori Kohno</i>	
<b>ESR IN 2D TRIANGULAR CHROMIUM LATTICES</b> .....	1031
<i>M Hemmida, H-A Krug Von Nidda, A Loidl</i>	
<b>SPIN-WAVE THEORY FOR DIMERIZED FERROMAGNETIC CHAINS</b> .....	1035
<i>Alexander Herzog, Peter Horsch, Andrzej M Oles, Jesko Sirker</i>	
<b>HIGH-FIELD MAGNETIZATION PROCESS OF <math>\text{O}_2</math> ADSORBED IN A MICROPOROUS COORDINATION POLYMER CPL-1 AT VARIOUS TEMPERATURES</b> .....	1039
<i>A Hori, T C Kobayashi, A Matsuo, K Kindo, R Matsuda, S Kitagawa</i>	
<b>PARTIAL ORDER OF FRUSTRATED POTTS MODEL</b> .....	1043
<i>Ryo Igarashi, Masao Ogata</i>	
<b>MONTE CARLO SIMULATIONS OF THE SPIN-2 BLUME-EMERY-GRIFFITHS MODEL</b> .....	1047
<i>Takashi Iwashita, Kakuko Uragami, Yoshinori Muraoka, Takehiro Kinoshita, Toshihiro Idogaki</i>	
<b>MAGNETISM OF THE SPIN-CHAIN COMPOUND <math>\text{Ca}_3\text{CO}_{19}\text{Fe}_{0.1}\text{O}_6</math>: MAGNETIZATION AND NEUTRON DIFFRACTION STUDY</b> .....	1051
<i>A Jain, S M Yusuf, J Campo, L Keller</i>	
<b>ANTIFERROMAGNETIC INTERACTIONS IN A DISTORTED CUBANE-TYPE TETRANUCLEAR MANGANESE CLUSTER</b> .....	1055
<i>E Kampert, J C Russcher, D W Boukhvalov, F F B J Janssen, J M M Smits, R De Gelder, B De Bruin, P C M Christianen, A E Rowan, M I Katsnelson, J C Maan, U Zeitler</i>	
<b>ENHANCEMENT OF THERMAL CONDUCTIVITY DUE TO SPINONS IN THE ONE-DIMENSIONAL SPIN SYSTEM <math>\text{SrCuO}_2</math></b> .....	1059
<i>T Kawamata, N Kaneko, M Uesaka, M Sato, Y Koike</i>	
<b>NUCLEAR MAGNETIC AND QUADRUPOLE RESONANCES OF CU IN THE LOW-DIMENSIONAL MAGNETS <math>\text{Cu}_2\text{M}_2\text{Ge}_4\text{O}_{13}</math> (<math>\text{M} = \text{Fe}, \text{Sc}</math>)</b> .....	1063
<i>J Kikuchi, S Nagura, H Nakanishi, T Masuda</i>	
<b>HIGH FREQUENCY ESR MEASUREMENTS ON THE SPIN CROSSOVER COMPLEX <math>[\text{Mn}^{\text{III}}(\text{TAA})]</math></b> .....	1067
<i>S Kimura, M Hagiwara, Y Narumi, M Nakano, K Kindo</i>	
<b>NONEQUILIBRIUM DYNAMIC PHASE TRANSITION IN THE FERROMAGNETIC POTTS MODEL</b> .....	1071
<i>Takehiro Kinoshita, Minoru Ohta, Masahiro Takamoto, Yoshinori Muraoka, Takashi Iwashita, Toshihiro Idogaki</i>	
<b>QUASIPARTICLES OF STRING SOLUTIONS IN THE SPIN-1/2 ANTIFERROMAGNETIC HEISENBERG CHAIN IN A MAGNETIC FIELD</b> .....	1075
<i>Masanori Kohno</i>	
<b>TRIPLO-SPINON HYBRIDIZATION IN <math>\text{Cu}_3\text{MO}_2\text{O}_9</math>, OBSERVED USING INELASTIC NEUTRON SCATTERING</b> .....	1079
<i>H Kuroe, T Hamasaki, T Sekine, M Hase, K Oka, T Ito, H Eisaki, M Matsuda</i>	
<b>SKYRMIONIC TEXTURES IN CHIRAL MAGNETS</b> .....	1083
<i>Ulrich K Rößler, Andrei A Leonov, Alexei N Bogdanov</i>	
<b>MAGNETIC BEHAVIOR OF A SPIN-1 BLUME-EMERY-GRIFFITHS MODEL</b> .....	1087
<i>F P Mancini</i>	
<b>PHASE DIAGRAM OF A SHORT-RANGE INTERACTING <math>\text{SO}(3)</math> QUANTUM SPIN-GLASS</b> .....	1091
<i>C M S Da Conceição, E C Marino</i>	
<b>RELEVANCE OF NONADIABATIC EFFECTS IN TIOCL</b> .....	1095
<i>Diego Mastrogiuseppe, Ariel Dobry</i>	
<b>BOUNDARY MAGNETIZATION OF THE GENERALIZED MCCOY-WU TYPE RANDOM ISING MODELS</b> .....	1099
<i>K Matsumoto, Y Akutsu</i>	
<b>THEORY OF MAGNETIC EXCITATION FOR COUPLED SPIN DIMER AND SPIN CHAIN SYSTEM <math>\text{Cu}_2\text{Fe}_2\text{Ge}_4\text{O}_{13}</math></b> .....	1103
<i>Masashige Matsumoto, Haruhiko Kuroe, Tomoyuki Sekine, Takatsugu Masuda</i>	
<b>MAGNETIC PROPERTIES AND NEUTRON DIFFRACTION STUDY OF <math>(\text{Ni}_x\text{Mn}_{1-x})_3[\text{Cr}(\text{CN})_6]_2</math> MOLECULE-BASED MAGNETS</b> .....	1107
<i>M Mihalik, V Kavecanský, S Mat'As, M Zentková, O Prokhenko, G André</i>	
<b><math>\mu\text{SR}</math> AND NMR STUDY ON QUANTUM CRITICAL POINT IN QUANTUM SPIN LADDER <math>(\text{CH}_3)_2\text{CHNH}_3\text{Cu}(\text{Cl}_x\text{BR}_{1-x})_3</math></b> .....	1111
<i>S Nakajima, T Goto, T Suzuki, I Watanabe, H Manaka, A Amato</i>	
<b>PRECISE ESTIMATES BY FINITE-SIZE EXTRAPOLATIONS OF THE <math>S=1</math> HALDANE-GAPPED SYSTEM</b> .....	1115
<i>Hiroki Nakano</i>	
<b>ORTHO-PARA CONVERSION OF HYDROGEN MOLECULES ON <math>\text{Cr}_2\text{O}_3(0001)/\text{Cr}(110)</math> SURFACES</b> .....	1119
<i>M Fujiwara, K Niki, T Okano, K Fukutani</i>	
<b>DIMERIZATION TRANSITION OF THREE-LEG HEISENBERG TUBE</b> .....	1123
<i>Satoshi Nishimoto, Mitsuhiro Arikawa</i>	

<b>QUANTUM SPIN SYSTEM IN F-ELECTRON COMPOUNDS -YBa<sub>1-x</sub>Cu<sub>3</sub> AND ITS RELATED COMPOUNDS-</b> .....	1127
<i>A Ochiai, K Hara, F Kikuchi, T Inukai, E Matsuoka, H Onodera, S Nakamura, T Nojima, K Katoh</i>	
<b>SPIN-GAP OBSERVATION IN THE TRIANGULAR LATTICE ANTIFERROMAGNET INMNO<sub>3</sub> BY HIGH-FIELD ESR</b> .....	1131
<i>H Ohta, N Matsumi, S Okubo, M Fujisawa, T Sakurai, H Kikuchi, K Furukawa, T Nakamura</i>	
<b>HIGH-FIELD ESR MEASUREMENTS OF S=3/2 HONEYCOMB LATTICE ANTIFERROMAGNET BI<sub>3</sub>MN<sub>4</sub>O<sub>12</sub>(NO<sub>3</sub>)</b> .....	1135
<i>Susumu Okubo, Fatma Elmasry, Weimin Zhang, Masashi Fujisawa, Takahiro Sakurai, Hitoshi Ohta, Masaki Azuma, Olga A Sumirnova, Nobuhiro Kumada</i>	
<b>WANG-LANDAU SIMULATION OF THE QUASI-ONE-DIMENSIONAL SPIN SYSTEMS</b> .....	1139
<i>Kouichi Okunishi, Takayuki Tanabe</i>	
<b>MULTIPLE FERROMAGNETIC STRUCTURES IN AN OFF-CENTER RATTILING SYSTEM EU<sub>8</sub>GA<sub>16</sub>GE<sub>30</sub></b> .....	1143
<i>Takahiro Onimaru, Shuhei Yamamoto, Marcos A Avila, Koichiro Suekuni, Toshiro Takabatake</i>	
<b>FIELD THEORETICAL TREATMENT OF A THREE-SPIN INTERACTION MODEL ON TRIANGULAR LATTICE</b> .....	1147
<i>Hiromi Otsuka</i>	
<b>QUANTUM HEISENBERG ANTIFERROMAGNETIC CHAINS WITH EXCHANGE AND SINGLE-ION ANISOTROPIES</b> .....	1151
<i>D Peters, I P McCulloch, W Selke</i>	
<b>ANALYSIS OF THE MAGNETIC RESPONSE OF THE EDGE-SHARING CHAIN CUPRATE LI<sub>2</sub>CUO<sub>2</sub> WITHIN TMRG</b> .....	1155
<i>Eygeny Plekhanov, Adolfo Avella, Ferdinando Mancini</i>	
<b>ELECTRICAL AND THERMAL TRANSPORT PROPERTIES OF CR-SI ALLOY SINGLE CRYSTALS</b> .....	1159
<i>A R E Prinsloo, H L Alberts, A M Strydom</i>	
<b>SPONTANEOUS PARITY VIOLATION IN A QUANTUM SPIN CHAIN</b> .....	1163
<i>Stephan Rachel, Dirk Schuricht, Burkhard Scharfenberger, Ronny Thomale, Martin Greiter</i>	
<b>SCALING OF SPIN-DENSITY-WAVE EFFECTS IN THE QUANTUM CRITICAL (CR<sub>86</sub>RU<sub>14</sub>)<sub>1-x</sub>V<sub>x</sub> ALLOY SYSTEM</b> .....	1167
<i>L Reddy, H L Alberts, A R E Prinsloo, A M Strydom</i>	
<b>A DIAGRAMMATIC THEORY OF THE ANTIFERROMAGNETIC FRUSTRATED 2D HEISENBERG MODEL</b> .....	1171
<i>Johannes Reuther, Peter Wölfle</i>	
<b>MAGNETIZATION PROCESS OF THE S=1/2 DISTORTED DIAMOND SPIN CHAIN WITH THE DZVALOSHINSKY-MORIYA INTERACTION</b> .....	1175
<i>T Sakai, K Okamoto, T Tonegawa</i>	
<b>TRANSPORT BEHAVIOR AND DYNAMICAL CONTROL IN INTEGRABLE AND CHAOTIC SPIN-1/2 HEISENBERG CHAINS</b> .....	1179
<i>Lea F Santos</i>	
<b>THERMAL CONDUCTIVITY IN THE BOSE-EINSTEIN CONDENSED STATE OF TRIPLONS IN THE BOND-ALTERNATING SPIN-CHAIN SYSTEM PB<sub>2</sub>V<sub>3</sub>O<sub>9</sub></b> .....	1183
<i>Mitsuhide Sato, Takayuki Kawamata, Naoki Sugawara, Naoto Kaneko, Masanori Uesaka, Kazutaka Kudo, Norio Kobayashi, Yoji Koike</i>	
<b>THE TWO-DIMENSIONAL FRUSTRATED HEISENBERG MODEL ON THE ORTHORHOMBIC LATTICE</b> .....	1187
<i>B Schmidt, M Siahtagar, P Thalmeier, A A Tsirlin</i>	
<b>MAGNETIC SUSCEPTIBILITY AND SATURATION MAGNETIC FIELD IN THE T-J<sub>2</sub>-J<sub>3</sub>-K MODEL: <sup>3</sup>HE ON GRAPHITE</b> .....	1191
<i>K Seki, Y Ohta</i>	
<b>HEISENBERG ANTIFERROMAGNETS WITH EXCHANGE AND CUBIC ANISOTROPIES</b> .....	1195
<i>G Bannasch, W Selke</i>	
<b>PHASE DIAGRAM OF THE SPIN-1/2 J<sub>1</sub>-J<sub>2</sub>-J<sub>3</sub> HEISENBERG MODEL ON THE SQUARE LATTICE</b> .....	1199
<i>Philippe Sindzingre, Nic Shannon, Tsutomu Momoi</i>	
<b>PHASE TRANSITIONS IN EXACTLY SOLVABLE DECORATED MODEL OF LOCALIZED ISING SPINS AND ITINERANT ELECTRONS</b> .....	1203
<i>J Strecka, A Tanaka, M Jašćur</i>	
<b>MAGNETIC PROPERTIES OF S=L/2 ANTIFERROMAGNETIC XXZ MODEL ON THE SHASTRY-SUTHERLAND LATTICES</b> .....	1207
<i>Takafumi Suzuki, Yusuke Tomita, Naoki Kawashima</i>	
<b>PRESSURE EFFECT ON MAGNETIC GROUND STATES IN TL(CU<sub>1-x</sub>MG<sub>x</sub>)CL<sub>3</sub> WITH X = 0.015 PROBED BY MUON-SPIN-ROTATION</b> .....	1211
<i>Takao Suzuki, Isao Watanabe, Fumiko Yamada, Yasuyuki Ishii, Kazuki Ohishi, Risdiana, Takayuki Goto, Hidekazu Tanaka</i>	
<b>ON THE MAGNETIC STRUCTURE OF FRUSTRATED ANTIFERROMAGNETS LICU<sub>2</sub>O<sub>2</sub> AND NACU<sub>2</sub>O<sub>2</sub></b> .....	1215
<i>L E Svistov, L A Prozorova, A A Bush, K E Kamentsev</i>	
<b>MEAN-FIELD TYPE ISING SPIN GLASS IN A DILUTED RARE-EARTH INTERMETALLIC COMPOUND</b> .....	1219
<i>Y Tabata, K Matsuda, S Kanada, T Waki, H Nakamura, K Sato, K Kindo</i>	
<b>THE CRITICAL BEHAVIOUR OF THE 1-DIMENSIONAL XY MODEL WITH POWER LAW DECAY LONG RANGE INTERACTIONS</b> .....	1223
<i>Masahiro Takamoto, Yoshinori Muraoka, Toshihiro Idogaki</i>	
<b>HALF MAGNETIZATION PLATEAU OF A FRUSTRATED S = 1 ANTIFERROMAGNETIC CHAIN</b> .....	1227
<i>T Tonegawa, H Nakano, T Sakai, K Okamoto, K Okunishi, K Nomura</i>	

<b>MAGNETIC AND ELECTRICAL PROPERTIES OF A <math>\text{Nd}_5\text{Ge}_4</math> SINGLE CRYSTAL</b> .....	1231
<i>Takanori Tsutaoka, Tomohito Tokunaga, Akira Tanaka, Yasuo Narumi, Koichi Kindo</i>	
<b>DILUTE-BOSE-GAS APPROACH TO GROUND STATE PHASES OF 3D QUANTUM HELIMAGNETS UNDER HIGH MAGNETIC FIELD</b> .....	1235
<i>Hiroaki T Ueda, Keisuke Totsuka, Tsutomu Momoi</i>	
<b>THERMAL CONDUCTIVITY OF THE QUASI ONE-DIMENSIONAL SPIN SYSTEM <math>\text{Sr}_2\text{V}_3\text{O}_9</math></b> .....	1239
<i>M Uesaka, T Kawamata, N Kaneko, M Sato, K Kudo, N Kobayashi, Y Koike</i>	
<b>SPIN-LATTICE COUPLING AS ENVIRONMENTAL EFFECT</b> .....	1243
<i>Alessandro Cuccoli, Niccolò Del Sette, Ruggero Vaia</i>	
<b>QUANTUM CRITICAL DYNAMICS OF <math>S = 1/2</math> ANTIFERROMAGNETIC HEISENBERG CHAINS STUDIED IN <math>\text{CuPzN}</math> BY ESR</b> .....	1247
<i>A A Validov, E M Lavrentyeva, M Ozerov, S A Zvyagin, M M Turnbull, C P Landee, G B Teitelbaum</i>	
<b>SPIN-SINGLET STATE IN <math>\text{Sb}_2\text{VO}_5</math></b> .....	1251
<i>T Waki, Y Tabata, H Nakamura, C Michioka, K Yoshimura, Y Narumi, K Kindo</i>	
<b>CLUSTER MEAN-FIELD APPROACH INCLUDING CORRELATION EFFECTS BETWEEN CLUSTERS</b> .....	1255
<i>Daisuke Yamamoto</i>	
<b>BIPOLAR MAGNETIZATION SWITCHING AND ITS CONTROL IN A PRUSSIAN BLUE TYPE MOLECULAR MAGNETIC COMPOUND</b> .....	1259
<i>S M Yusuf, Amit Kumar, J V Yakhmi</i>	
<b>EFFECT OF PRESSURE ON MAGNETIC PROPERTIES OF MIXED FERRO-FERRIMAGNET <math>(\text{Ni}_{0.38}\text{Mn}_{0.62})_3[\text{Cr}(\text{CN})_6]_2 \cdot \text{Zn}_2\text{O}</math></b> .....	1263
<i>M Zentková, M Mihalik, Z Arnold, J Kamarád</i>	
<b>SKYRMION LATTICE DOMAINS IN <math>\text{Fe}_{1-x}\text{Co}_x\text{Si}</math></b> .....	1267
<i>T Adams, S Mühlbauer, A Neubauer, W Münzer, F Jonietz, R Georgii, B Pedersen, P Böni, A Rosch, C Pfleiderer</i>	
<b>STUDIES OF THE TIME DEPENDENCE OF THE MAGNETIZATION OF T-<math>\text{Al}_3\text{Mn}(\text{Pd},\text{Fe})</math> COMPOUNDS</b> .....	1271
<i>K Ali, M Reissner, M Feuerbacher, W Steiner</i>	
<b>ANISOTROPY OF MAGNETORESISTANCE IN <math>\text{Pr}^{11}\text{B}_6</math> AND <math>\text{NdB}_6</math></b> .....	1275
<i>M Anisimov, A Bogach, V Glushkov, S Demishev, N Samarin, V Filipov, N Shitsevalova, N Sluchanko</i>	
<b>ELECTRONIC STRUCTURE NEAR ANTIPHASE BOUNDARIES IN MAGNETITE</b> .....	1279
<i>R Arras, L Calmels, B Warot-Fonrose</i>	
<b>UNUSUAL MAGNETIC PROPERTIES OF <math>\text{Yb}_x\text{Gd}_{1-x}\text{Ni}_5</math> (<math>x=0.5</math>) INTERMETALLICS</b> .....	1283
<i>A Bajorek, G Chelkowska, A Chrobak</i>	
<b>THE EFFECT OF <math>\alpha</math>-FE CRYSTALLITES ON THE MAGNETIC STRUCTURES OF <math>\text{Fe}_{100-x}\text{Zr}_x</math> GLASSES</b> .....	1287
<i>P M Bentley, A R Wildes, S H Kilcoyne, N Cowlam</i>	
<b>CRYSTAL-FIELD AND ND-MN EXCHANGE INTERACTION IN <math>\text{Nd}_{2/3}\text{Ca}_{1/3}\text{MnO}_3</math></b> .....	1292
<i>A Beznosov, E Fertman, V Desnenko, A Feher, M Kajnakova, A Loginov</i>	
<b>MONTE CARLO STUDY OF MAGNETOCALORIC PROPERTIES OF NI-MN-GA HEUSLER ALLOYS</b> .....	1296
<i>V Buchelnikov, V Sokolovskiy, S Taskaev, V Khovaylo, P Entel</i>	
<b>THE INCOMMENSURATE MAGNETIC STRUCTURE OF <math>\text{Er}_3\text{Cu}_4\text{Ge}_4</math> BELOW 1 K</b> .....	1300
<i>J M Cadogan, D H Ryan, L M D Cranswick</i>	
<b>MAGNETIC DOMAINS AND FIELD-INDUCED TRANSITIONS IN NANOSIZED <math>\text{ErCo}_{0.5}\text{Mn}_{0.5}\text{O}_3</math></b> .....	1304
<i>C M Campos, G Pecchi, A B Antunes, O Peña</i>	
<b>FERROMAGNETIC/ANTIFERROMAGNETIC EXCHANGE COUPLING IN <math>\text{Ni}_2\text{MnSn}</math>-DERIVED MAGNETIC SHAPE MEMORY ALLOYS</b> .....	1308
<i>S Chatterjee, S Giri, S K De, S Majumdar</i>	
<b>FROM ANTIFERROMAGNETIC TO FERROMAGNETIC ORDERING INDUCED BY HYDROGENATION OF THE COMPOUNDS <math>\text{NDCoSi}</math> AND <math>\text{NDCoGe}</math></b> .....	1312
<i>B Chevalier, S Tencé, G André, S F Matar, E Gaudin</i>	
<b>EXPERIMENTAL STUDY ON STABILIZING RANGE EXTENSION OF DIAMAGNETIC LEVITATION UNDER MODULATED MAGNETIC FIELD</b> .....	1316
<i>T C S Chow, P L Wong, K P Liu</i>	
<b>MN DOPING IN MODEL AMORPHOUS SI AND GE: A THEORETICAL INVESTIGATION</b> .....	1320
<i>Alessandra Continenza, Gianni Profeta</i>	
<b>EXCHANGE INTERACTIONS IN <math>\text{TbMnO}_3</math></b> .....	1324
<i>Arash A Samimi, S H Curnoe</i>	
<b>TERNARY MIXED MAGNETIC CO/MN/Ni DICHLORIDE DIHYDRATE</b> .....	1328
<i>G C Defotis, A S Hampton, J M Pothen</i>	
<b>SYNTHESIS, STRUCTURE AND PHYSICAL PROPERTIES OF <math>\text{U}_3\text{CO}_2\text{Si}_7</math> AND <math>\text{Np}_3\text{CO}_2\text{Si}_7</math> COMPOUNDS</b> .....	1338
<i>R Eloiardi, E Colineau, J-C Griveau, K Gofryk, S Surblé, P Gaczynski, R Caciuffo</i>	
<b>MAGNETIC PHASE TRANSITIONS IN <math>\text{La}_{1-x}\text{Dy}_x\text{Mn}_2\text{Si}_2</math> (<math>0 = x = 1</math>) COMPOUNDS</b> .....	1342
<i>E G Gerasimov, Yu A Dorofeev, A N Pirogov, V S Gaviko, N V Mushnikov</i>	
<b>EFFECT OF ANISOTROPY IN TEMPERATURE DYNAMICS OF MAGNETIC PHASE SEPARATION IN EUROPIUM HEXABORIDE</b> .....	1346
<i>T S Altshuler, Yu V Goryunov, N Yu Shitsevalova, A Dukhnenko</i>	
<b>ELECTRONIC AND MAGNETIC STRUCTURE OF <math>(\text{CrCl}_3)_3</math></b> .....	1350
<i>M Grodzicki, B Mallick, A-V Mudring</i>	
<b>MAGNETIZATION JUMPS AND RELAXATION EFFECT IN DOPED <math>\text{CeFe}_2</math></b> .....	1354
<i>Arabinda Haldar, K G Suresh, A K Nigam</i>	

<b>FIELD-INDUCED INCOMMENSURATE-TO-COMMENSURATE TRANSITION IN THE TRIANGULAR LATTICE ANTIFERROMAGNET <math>GDPd_2Al_3</math></b> .....	1360
<i>T Inami, N Terada, H Kitazawa, O Sakai</i>	
<b>SINUSOIDALLY MODULATED MAGNETIC STRUCTURE OF A KONDO LATTICE COMPOUND <math>CEPD_5Al_2</math></b> .....	1364
<i>Y F Inoue, T Onimaru, A Ishida, T Takabatake, Y Oohara, T J Sato, D T Adroja, A D Hillier, E A Goremychkin</i>	
<b>MAGNETIC PROPERTIES OF <math>NDCr_2Si_2C</math> SINGLE CRYSTAL</b> .....	1368
<i>Marcela Janatová, Jana Poltířová Vejpravová, Vladimír Sechovský, Martin Diviš</i>	
<b>A COMPARATIVE RAMAN STUDY BETWEEN <math>YBVO_3</math> AND <math>YVO_3</math></b> .....	1372
<i>S Jandl, A A Nugroho, T T M Palstra</i>	
<b>HELMAGNONS IN THE SKYRMION LATTICE OF MNSI</b> .....	1376
<i>M Janoschek, F Jonietz, P Link, C Pfeleiderer, P Böni</i>	
<b>NON-COLLINEAR ANTIFERROMAGNETIC STRUCTURE IN PRCUAL</b> .....	1380
<i>P Javorský, J Kaštil, O Isnard</i>	
<b>TRICRITICAL POINT OF A FERROMAGNETIC TRANSITION IN <math>UGE_2</math></b> .....	1384
<i>N Kabeya, R Iijima, E Osaki, S Ban, K Imura, K Deguchi, N Aso, Y Homma, Y Shiohawa, N K Sato</i>	
<b>SUBSTITUTION EFFECTS ON MAGNETIC PROPERTIES OF GD-R (R=Y, ZR) ALLOYS</b> .....	1388
<i>S Kaji, T Kobayashi, A T Saito</i>	
<b>FIRST-PRINCIPLES DYNAMICAL CPA TO FINITE-TEMPERATURE MAGNETISM OF TRANSITION METALS</b> .....	1392
<i>Y Kakehashi, T Tamashiro, M A R Patoary, T Nakamura</i>	
<b>MAGNETIC TRANSITIONS IN <math>YBCO_2Si_2</math></b> .....	1396
<i>Koji Kaneko, Oliver Stockert, Nandang Mufti, Klaus Kiefer, Christoph Klingner, Cornelius Krellner, Christoph Geibel, Frank Steglich</i>	
<b>MAGNETIC SUSCEPTIBILITY OF THE FRUSTRATED SPINELS <math>ZnCr_2O_4</math>, <math>MgCr_2O_4</math> AND <math>CdCr_2O_4</math></b> .....	1400
<i>Ch Kant, J Deisenhofer, V Tsurkan, A Loidl</i>	
<b>COEXISTENCE OF FERROMAGNETIC AND ANTIFERROMAGNETIC STATES IN <math>CARu_{1-x}Mn_xO_3</math></b> .....	1404
<i>Hirofumi Kawanaka, Asumi Noguchi, Makoto Yokoyama, Hiroshi Bando, Yoshikazu Nishihara</i>	
<b>MAGNETIC AND THERMAL PROPERTIES OF NOVEL <math>TMPT_2B</math></b> .....	1408
<i>R T Khan, G Hilscher, H Michor, E Bauer, O Sologub, P Rogl, G Giester</i>	
<b>SIMULATION OF NON-EQUILIBRIUM PHASE TRANSITION IN A RANDOM MAGNETIC SYSTEM</b> .....	1412
<i>Tamotsu Kitazaki, Tomohiko Kato</i>	
<b>FIRST-PRINCIPLES STUDY OF PROPERTIES OF SEMI-HEUSLER (CU,NI)MNSB ALLOYS</b> .....	1416
<i>J Kudrnovský, V Drchal, I Turek</i>	
<b>MAGNETIC VORTEX STRUCTURES PROBED BY MAGNETOTRANSPORT IN SUB-MICRON PERMALLOY DISKS</b> .....	1420
<i>C Y Kuo, T Y Chung, S Y Hsu</i>	
<b>INFLUENCE OF THERMAL ANNEALING AND MAGNETIC FIELD ON FIRST ORDER MAGNETIC TRANSITION IN PD SUBSTITUTED FERH</b> .....	1425
<i>Pallavi Kushwaha, Archana Lakhani, R Rawat, P Chaddah</i>	
<b>MAGNETO-STRUCTURAL CORRELATIONS IN DOUBLE-BRIDGED <math>[Cu_2F_6]^{2-}</math></b> .....	1429
<i>S Lebernegg, G Amthauer, M Grodzicki</i>	
<b>HYDROGENATION AFFECTING THE 5F MAGNETISM</b> .....	1433
<i>S Mašková, L Havela, E Šantavá, K Milyanchuk</i>	
<b>MAGNETISM OF RARE EARTH TETRABORIDES</b> .....	1437
<i>S Mat'As, K Siemensmeyer, E Wheeler, E Wulf, R Beyer, Th Hermannsdörfer, O Ignachik, M Uhlarz, K Flachbart, S Gabáni, P Priputen, A Efdokimova, N Shitsevalova</i>	
<b>DYNAMICAL STUDIES ON MODEL SPIN GLASSES</b> .....	1441
<i>R Mathieu, M Hudl, P Nordblad</i>	
<b>UNIAXIAL PRESSURE EFFECT ON THE MAGNETIC PROPERTIES OF THE METAL-ORGANIC HYBRID COMPOUND <math>Co^{II}(H_2O)_6</math> PYROMELLITATE</b> .....	1445
<i>Shusuke Matsumoto, Kohei Kishizono, Narihisa Fujimoto, Mitsuru Yoshihiro, Masaki Mito, Hiroyuki Deguchi, Seishi Takagi, Mohamedally Kurmoo</i>	
<b>THEORY OF MULTIPLE SPIN DENSITY WAVE AND LATTICE DISTORTION IN FCC ANTIFERROMAGNET</b> .....	1449
<i>Y Matsuura, T Jo</i>	
<b>AMPLIFICATION OF THE INDUCED FERROMAGNETISM IN DILUTED MAGNETIC SEMICONDUCTOR</b> .....	1453
<i>E Z Meilikhov, R M Farzetdinova</i>	
<b>MAGNETIZATION OF HIGHLY FRUSTRATED ZN-CHROMIUM SPINEL OXIDES UP TO A MEGAGAUSS MAGNETIC FIELD</b> .....	1457
<i>A Miyata, E Kojima, H Ueda, Y Ueda, Y Motome, S Takeyama</i>	
<b>SPECIFIC HEAT STUDY OF GEOMETRICALLY FRUSTRATED MAGNET CLINOATACAMITE <math>Cu_2Cl(OH)_3</math></b> .....	1461
<i>Hiroki Morodomi, Koichiro Ienaga, Yuji Inagaki, Tatsuya Kawae, Masayuki Hagiwara, X G Zheng</i>	
<b>LONG-TIME VARIATION OF MAGNETIC STRUCTURE IN <math>CEIr_3Si_2</math></b> .....	1465
<i>Kiyochiro Motoya, Yuji Muro, Toshiro Takabatake</i>	
<b>MAGNETIC PROPERTIES OF THE <math>TbNi_2Mn_x</math> (0 = x = 1) CUBIC STRUCTURE COMPOUNDS</b> .....	1469
<i>N V Mushnikov, V S Gaviko, E G Gerasimov, P B Terent'Ev, J - G Park, A N Pirogov</i>	
<b>EFFECT OF PRESSURE ON THERMOPOWER AND RESISTIVITY OF <math>EuCo_2P_2</math></b> .....	1473
<i>T Nakama, T Yoshida, A Ohno, D Nakamura, Y Takaesu, M Hedo, K Yagasaki, K Uchima, T Fujiwara, T Shigeoka</i>	

<b>ELECTRIC FIELD-INDUCED CHANGE IN MAGNETOCRYSTALLINE ANISOTROPY IN FERROMAGNETIC TRANSITION-METAL THIN FILMS</b> .....	1477
<i>Kohji Nakamura, Riki Shimabukuro, Toru Akiyama, Tomonori Ito, A J Freeman</i>	
<b>HYPERFINE COUPLING CONSTANT FOR <sup>59</sup>CO ESTIMATED FROM A HIGH-FIELD SUSCEPTIBILITY AND HIGH-FIELD NMR SHIFT IN FERROMAGNETIC CO<sub>2</sub>TIGA AND CO<sub>2</sub>VGA</b> .....	1481
<i>H Nishihara, Y Furutani, T Wada, T Kanomata, K Kobayashi, R Kainuma, K Ishida, K Koyama, K Watanabe</i>	
<b>MAGNETIZATION PROCESS NEAR THE CURIE TEMPERATURE OF A FERROMAGNETIC HEUSLER ALLOY CO<sub>2</sub>CRGA</b> .....	1485
<i>H Nishihara, Y Furutani, T Wada, T Kanomata, K Kobayashi, R Kainuma, K Ishida, T Yamauchi</i>	
<b>AGING OF SPIN GLASS SEMICONDUCTOR CD<sub>1-x</sub>MN<sub>x</sub>TE WITHOUT CD DEFECTS UNDER PHOTO ILLUMINATION</b> .....	1489
<i>N Numata, K Komatu, T Sato</i>	
<b>REVERSAL OF THE SIGN OF GIANT MAGNETORESISTANCE UPON BORON FILLING IN RPD<sub>3</sub> COMPOUNDS (R=TB,ER)</b> .....	1493
<i>Abhishek Pandey, Chandan Mazumdar, R Ranganathan</i>	
<b>MAGNETIC BEHAVIOR IN TMCU<sub>2</sub>GE<sub>2</sub></b> .....	1497
<i>A P Pikul, L Gondek, D Kaczorowski, A Szytula</i>	
<b>EFFECT OF THE MAGNETIC PREHISTORY ON THE LOW-TEMPERATURE HEAT CAPACITY OF THE LA(Fe<sub>0.88</sub>Al<sub>0.12-x</sub>Si<sub>x</sub>)<sub>13</sub> COMPOUNDS</b> .....	1500
<i>S M Podgornykh, I M Chirkova</i>	
<b>MAGNETIC PHASE TRANSITIONS IN SMPD<sub>2</sub>AL<sub>3</sub></b> .....	1504
<i>Jiri Pospíšil, Marie Kratochvilová, Jan Prokleška, Martin Diviš, Vladimír Sechovský</i>	
<b>MAGNETIC DOMAIN WALL MOTION TRIGGERED BY ELECTRIC FIELD</b> .....	1508
<i>A P Pyatakov, A S Sergeev, D A Sechin, G A Meshkov, E P Nikolaeva, A V Nikolaev, A S Logginov, A K Zvezdin</i>	
<b>THE STUDY OF MAGNON-DRAG EFFECTS IN THE THERMOPOWER OF CUCR<sub>2</sub>X<sub>4</sub> (X = S, SE AND TE)</b> .....	1512
<i>T S Tripathi, G C Tewari, A K Rastogi</i>	
<b>HEAT CAPACITY AND POINT-CONTACT SPECTRA OF THE MELT-SPUN CUBIC RECU<sub>5</sub> COMPOUNDS (RE – HEAVY RARE EARTHS)</b> .....	1516
<i>M Reiffers, S Ilkovic, B Idzikowski, J Šebek, E Šantavá</i>	
<b>INFLUENCE OF MAGNETIC FIELDS ON STRUCTURAL MARTENSITIC TRANSITIONS</b> .....	1520
<i>Xiaodong Yang, Peter S Riseborough, K A Modic, R A Fisher, C P Opeil, T R Finlayson, J C Cooley, J L Smith, P A Goddard, A V Silhanek, J C Lashley</i>	
<b>MAGNETIC FIELD DEPENDENCE OF THE MAGNETIZATION OF A 29 NM THICK AUFÉ SPIN GLASS FILM</b> .....	1525
<i>M Saoudi, K Temst, C Van Haesendonck, M R Fitzsimmons, H Fritzsche</i>	
<b>SYNTHESIS AND MAGNETIC PROPERTIES OF MN<sub>2</sub>GeO<sub>3</sub> SINGLE CRYSTALS WITH ORTHORHOMBIC STRUCTURE</b> .....	1532
<i>N V Sapronova, A D Balaev, K A Sablina, N V Volkov, A D Vasilyev</i>	
<b>COMPLEX MAGNETIC PHASE DIAGRAMS OF TBCU<sub>2</sub>SI<sub>2</sub> SINGLE CRYSTAL</b> .....	1536
<i>T Shigeoka, M Tanaka, T Fujiwara, Y Uwatoko</i>	
<b>FE SUBSTITUTION EFFECT ON THE MAGNETIC PROPERTIES OF SMMN<sub>2-x</sub>FE<sub>x</sub>GE<sub>2</sub> STUDIED BY NMR</b> .....	1540
<i>K Shimizu, I Dincer, Y Elerman</i>	
<b>ANISOTROPY OF EXCHANGE INTERACTIONS BETWEEN IMPURITIES ON CU(110) SURFACE</b> .....	1544
<i>Eszter Simon, Balazs Ujjfalussy, Attila Szilva, Laszlo Szunyogh</i>	
<b>COEXISTENCE OF SPIRAL AND COMMENSURATE STRUCTURES IN A TRIANGULAR ANTIFERROMAGNET KFe(MOO<sub>4</sub>)<sub>2</sub></b> .....	1548
<i>A I Smirnov, L E Svistov, L A Prozorova, A Zheludev, M D Lumsden, E Ressouche, O A Petrenko, M Hagiwara, S Kimura, K Nishikawa, K Kindo, A Ya Shapiro, L N Demianets</i>	
<b>SPECIFIC HEAT OF THE DILUTE ANTIFERROMAGNETIC SYSTEM FE<sub>x</sub>ZN<sub>1-x</sub>F<sub>2</sub></b> .....	1552
<i>L L L Sousa, L R S Araújo, F L A Machado, F C Montenegro, S M Rezende</i>	
<b>MAGNETIC PROPERTIES OF CRYSTALLINE SMFe<sub>2</sub>-B ALLOYS</b> .....	1556
<i>S Radha, A K Nigam, Sang Ho Lim</i>	
<b>MAGNETIC ORDERING IN HEXAGONAL PRCUSI</b> .....	1560
<i>A M Strydom, B M Sondezi-Mhlungu</i>	
<b>MAGNETIC PROPERTIES OF TB<sub>3-x</sub>HO<sub>x</sub>CU<sub>4</sub>SN<sub>4</sub></b> .....	1565
<i>A Szytula, B Penc, A Zarzycki</i>	
<b>SITE RANDOM SUPERCONDUCTIVITY OF A15 COMPOUND NB<sub>3</sub>SN INDUCED BY MECHANICAL MILLING</b> .....	1570
<i>H Takano, T Sugiue, Y Amakai, N Momono, S Murayama</i>	
<b>MAGNETIC STRUCTURES OF THE TERNARY SILICIDE ND<sub>6</sub>Ni<sub>1.67</sub>SI<sub>3</sub></b> .....	1574
<i>S Tencé, E Gaudin, G André, F Bourée, B Chevalier</i>	
<b>MAGNETIC ORDER AND INTERACTION IN GARNET LATTICE ANTIFERROMAGNETS AGCA<sub>2</sub>M<sub>2</sub>V<sub>3</sub>O<sub>12</sub> (M=MN, CO, NI) AND NAPB<sub>2</sub>MN<sub>2</sub>V<sub>3</sub>O<sub>12</sub></b> .....	1578
<i>N Terada, H S Suzuki, H Kitazawa, K Kaneko, N Metoki, J Awaka, S Nagata</i>	
<b>KONDO EFFECT AND QUANTUM CRITICAL POINT IN MN<sub>(1-x)</sub>CO<sub>x</sub>SI</b> .....	1582
<i>J Teyssier, R Viennois, V Guritanu, E Giannini, D Van Der Marel</i>	
<b>ELECTRICAL RESISTIVITY AND THERMOPOWER OF ND<sub>1-x</sub>TB<sub>x</sub>CO<sub>2</sub> COMPOUNDS</b> .....	1586
<i>K Uchima, S Yonamine, A Kinjyo, Y Takaesu, M Hedo, T Nakama, K Yagasaki, A T Burkov</i>	
<b>MAGNETIC PROPERTIES OF TA(Fe<sub>1-x</sub>T<sub>x</sub>)<sub>2</sub> WITH T=V, CR, MN, CO AND NI</b> .....	1590
<i>Yuki Horie, Shun-Ichi Kawashima, Yoshihiro Yamada, Gaku Obara, Tatsuya Nakamura</i>	



<b>ANOMALOUS PHASE OF MNP AT VERY LOW FIELD</b> .....	1594
<i>T Yamazaki, Y Tabata, T Waki, H Nakamura, M Matsuura, N Aso</i>	
<b>MAGNETIC PROPERTIES OF IRON PNICTIDES FROM SPIN-SPIRAL CALCULATIONS</b> .....	1598
<i>Alexander Yaresko</i>	

## **MAGNETIZATION DYNAMICS AND MICROMAGNETICS**

<b>INFLUENCE OF BOUNDARY GEOMETRY IN DOMAIN WALL PROPAGATION IN MAGNETIC FILMS WITH ASYMMETRIC HOLES: MICROMAGNETIC CALCULATIONS</b> .....	1602
<i>A Alija, I Sobrado, G Rodriguez-Rodriguez, M Vélaz, J M Alameda, J M R Parrondo, J I Martín</i>	
<b>CONTROLLING SPIN VORTEX STATES IN MAGNETIC NANODISKS BY MAGNETIC FIELD PULSES</b> .....	1606
<i>Roman Antos, Michal Urbanek, Yoshichika Otani</i>	
<b>MICROMAGNETIC SIMULATION OF WALL TRANSITION STRUCTURES WITH SELF-INDUCED HELICAL ANISOTROPY AND THEIR PINNING EFFECTS</b> .....	1610
<i>H Asada, H Kubo, J Yamasaki, M Takezawa, T Koyanagi</i>	
<b>MICROWAVE-ASSISTED SWITCHING OF NiFe MAGNETIC MICROSTRUCTURES</b> .....	1614
<i>M Laval, J F Bobo, J J Bonnefois, F Issac, F Boust</i>	
<b>ANALYTICAL STUDY OF SYNCHRONIZATION IN SPIN-TRANSFER-DRIVEN MAGNETIZATION DYNAMICS</b> .....	1619
<i>Roberto Bonin, Giorgio Bertotti, Paolo Bortolotti, Claudio Serpico, Massimiliano D'Aquino, Isaak D Mayergoyz</i>	
<b>SPIN DYNAMICS OF HALF-METALLIC CO<sub>2</sub>MNSI</b> .....	1623
<i>P Buczek, A Ernst, L M Sandratskii</i>	
<b>EXPERIMENTAL COMPENSATION OF HYSTERESIS IN MAGNETOSTRICTIVE ACTUATOR</b> .....	1627
<i>H W Choi, Y W Park, B H Kim</i>	
<b>MAGNETIC NORMAL MODES OF ELLIPTICAL NiFe NANORING STUDIED BY MICRO-FOCUSED BRILLOUIN LIGHT SCATTERING</b> .....	1631
<i>M Madami, S Tacchi, G Gubbiotti, G Carlotti, F Montoncello, G Capuzzo, F Nizzoli</i>	
<b>USING LASER-INDUCED SPIN MANIPULATION TO BUILD MAGNETIC NANOLOGIC ELEMENTS</b> .....	1635
<i>W Hübner, S Kersten, G Lefkidis</i>	
<b>COMPOSITIONAL DEPENDENCE OF G-FACTOR AND DAMPING CONSTANT OF (GD<sub>100-x</sub>RE<sub>x</sub>)FECO ALLOY FILMS (RE = Yb, Tm, Er)</b> .....	1639
<i>R Komiya, T Kato, N Nishizawa, S Tsunashima, S Iwata</i>	
<b>LOCAL SPIN FLIP IN TWO- AND THREE-MAGNETIC-CENTER STRUCTURES: A FIRST-PRINCIPLES APPROACH</b> .....	1643
<i>G Lefkidis, C Li, T Hartenstein, W Hübner</i>	
<b>INFLUENCE OF THE DZYALOSHINSKII-MORIYA INTERACTION ON VORTEX STATES IN MAGNETIC NANODISKS</b> .....	1647
<i>A B Butenko, A A Leonov, A N Bogdanov, U K Röfler</i>	
<b>PROBING THE LOCAL MAGNETIZATION DYNAMICS IN LARGE SYSTEMS WITH SPATIAL INHOMOGENEITY</b> .....	1651
<i>J Li, M -S Lee, E Amaladass, W He, T Eimüller</i>	
<b>FIRST-PRINCIPLES CALCULATION OF MONITORING SPIN STATES OF SMALL MAGNETIC NANOSTRUCTURES WITH IR SPECTRUM OF CO</b> .....	1655
<i>C Li, G Lefkidis, W Hübner</i>	
<b>TRANSMISSION AND REFLECTION OF SPIN WAVES IN THE PRESENCE OF NÉEL WALLS</b> .....	1659
<i>Sebastian Macke, Dagmar Goll</i>	
<b>CURRENT-INDUCED INSTABILITY OF GEOMETRICALLY CONFINED MAGNETIC WALL</b> .....	1663
<i>Katsuyoshi Matsushita, Jun Sato, Hiroshi Imamura, Munetaka Sasaki</i>	
<b>ULTRAFAST DEMAGNETIZATION FOR Ni<sub>80</sub>Fe<sub>20</sub> AND HALF-METALLIC CO<sub>2</sub>MNSI HEUSLER ALLOY FILMS</b> .....	1667
<i>S Mizukami, S Tsunegi, T Kubota, M Oogane, D Watanabe, H Naganuma, Y Ando, T Miyazaki</i>	
<b>MICROMAGNETIC ANALYSIS OF CURRENT-DRIVEN DOMAIN WALL MOTION OF MULTI-BIT IN A NANOWIRE WITH PERPENDICULAR MAGNETIC ANISOTROPY</b> .....	1671
<i>Hiroshi Murakami, Kouta Takahashi, Takashi Komine, Ryuji Sugita</i>	
<b>STUDY OF DYNAMIC PROCESS OF DOMAIN CHANGE IN THE STEPPED GIANT MAGNETOIMPEDANCE ELEMENT</b> .....	1675
<i>T Nakai, K Takada, K Ishiyama</i>	
<b>HOW MANY SOLITON SOLUTIONS ARE THERE IN THE LANDAU-LIFSHITS EQUATION FOR UNIAXIAL FERROMAGNETIC?</b> .....	1679
<i>Natalia Ostrovskaya</i>	
<b>STUDY OF DOMAIN WALL PROPAGATION IN NANOSTRUCTURED COPT MULTILAYERS BY USING ANTISYMMETRIC MAGNETORESISTANCE</b> .....	1683
<i>G Rodriguez-Rodriguez, J L Menéndez, A Pérez-Junquera, A Hierro-Rodriguez, N Montenegro, D Ravelosona, J M Alameda, M Vélaz</i>	
<b>THERMAL STABILITY OF GEOMETRICALLY CONFINED DOMAIN WALL STRUCTURES</b> .....	1687
<i>Munetaka Sasaki, Katsuyoshi Matsushita, Jun Sato, Hiroshi Imamura</i>	
<b>DAMPING OF NEAR-ADIABATIC MAGNETIZATION DYNAMICS BY EXCITATIONS OF ELECTRON-HOLE PAIRS</b> .....	1691
<i>J Seib, D Steiauf, M Fähnle</i>	

<b>DEMAGNETIZATION ON THE FS TIME-SCALE BY THE ELLIOTT-YAFET MECHANISM</b> .....	1695
<i>Daniel Steiauf, Christian Illg, Manfred Fähnle</i>	
<b>DOMAIN WALL DYNAMICS IN ULTRA THIN MANGANITE FILM</b> .....	1699
<i>Ludmila Uspenskaya, Timur Nurgaliev, S Miteva</i>	
<b>DIFFUSION-DAMPED DOMAIN WALL DYNAMICS</b> .....	1703
<i>R Varga, G Infante, G A Badini-Confaloneri, M Vázquez</i>	
<b>WEAK STRIPE DOMAINS VIBRATIONS DESCRIPTION USING THIELE EQUATION</b> .....	1707
<i>Y Talbi, Y Roussigné, P Djemia, M Labruno</i>	
<b>GIANT MAGNETORESISTANCE EFFECT DETECTION OF MAGNETIZATION REVERSAL IN SINGLE CRYSTALLINE NANOWIRES</b> .....	1711
<i>H Yamamoto, Y Kasatani, A Yamaguchi, H Miyajima</i>	

### **SPIN-DEPENDENT TRANSPORT**

<b>COEXISTENCE OF ANTIFERROMAGNETISM AND SPIN POLARIZATION IN DOUBLE PEROVSKITE SRLAVMOO<sub>6</sub></b> .....	1715
<i>H Asano, H Gotoh, H Matsushima, Y Takeda, J Zhong, A Rajanikanth, K Hono</i>	
<b>INVERSE AND NORMAL TUNNELING MAGNETORESISTANCE EFFECTS IN FECOGD/FECO/ALO/FECO MULTILAYERS</b> .....	1719
<i>X J Bai, J J Ge, M Yang, J Du, B You, W Zhang, A Hu, Z Xu, S M Zhou, R K Zheng</i>	
<b>MAGNETIC TRANSITIONS IN THE PEROVSKITES PR<sub>1-x</sub>SR<sub>x</sub>COO<sub>3</sub></b> .....	1723
<i>Iosif G Deac, Romulus Tetean, Istvan Balasz, Daniel Andreica, Adrian Vladescu, Roxana Dudric, Arthur R Tunyagi, Emil Burzo</i>	
<b>STUDY OF KONDO EFFECT IN MGO-BASED MAGNETIC TUNNEL JUNCTIONS BY ELECTRON TUNNELLING SPECTROSCOPY</b> .....	1727
<i>D O Bang, T Nozaki, Y Suzuki, K Rhie, T-S Kim, A Fukushima, S Yuasa, E Minamitani, H Nakanishi, H Kasai</i>	
<b>MAGNETOTRANSPORT PROPERTIES OF NI-MN-IN HEUSLER ALLOYS: GIANT HALL ANGLE</b> .....	1731
<i>I Dubenko, A K Pathak, N Ali, Y A Kovarskii, V N Prudnikov, N S Perov, A B Granovsky</i>	
<b>A CALCULATION BASED ON GREEN'S FUNCTION METHOD FOR FM/MGO /FM SANDWICHES WITH ROUGHNESS AT INTERFACES</b> .....	1735
<i>S Edalati Boostan, H Moradi</i>	
<b>LA<sub>2/3</sub>SR<sub>1/3</sub>MNO<sub>3</sub> THIN FILMS DEPOSITED BY LASER ABLATION ON LITHIUM NIOBATE SUBSTRATES</b> .....	1739
<i>I T Gomes, A M Pereira, J P Araújo, A M L Lopes, M E Braga, B G Almeida</i>	
<b>STRUCTURAL, MAGNETIC, AND MAGNETOTRANSPORT PROPERTIES OF FEPT/MGO/COPT PERPENDICULARLY MAGNETIZED TUNNEL JUNCTIONS</b> .....	1743
<i>N Inami, G Kim, T Hiratsuka, H Naganuma, M Oogane, Y Ando</i>	
<b>MAGNETOTRANSPORT PROPERTIES OF COFEB/MGO/COFE/MGO/COFEB DOUBLE BARRIER MAGNETIC TUNNEL JUNCTIONS WITH LARGE NEGATIVE MAGNETORESISTANCE AT ROOM TEMPERATURE</b> .....	1747
<i>L X Jiang, H Naganuma, M Oogane, K Fujiwara, T Miyazaki, K Sato, T J Konno, S Mizukami, Y Ando</i>	
<b>ANOMALOUS ANGLE-RESOLVED PHOTOEMISSION SPECTRA IN THE COLOSSAL MAGNETORESISTIVE BILAYER MANGANITES</b> .....	1751
<i>Ikuo Kanazawa</i>	
<b>MAGNETORESISTANCE OF PERPENDICULARLY MAGNETIZED TUNNEL JUNCTION USING LI<sub>0</sub> CONIPT WITH LOW SATURATION MAGNETIZATION</b> .....	1755
<i>G Kim, T Hiratsuka, H Naganuma, M Oogane, Y Ando</i>	
<b>FIRST PRINCIPLES STUDY FOR THE ELECTRONIC STRUCTURE AND RESIDUAL RESISTIVITY OF CO<sub>2</sub>MNZ (Z=AL, SI)</b> .....	1759
<i>Yohei Kota, Hiroki Tsuchiura, Akimasa Sakuma</i>	
<b>PRESSURE INDUCED CANTED FERROMAGNETIC ORDER IN LA<sub>1.32</sub>SR<sub>1.68</sub>MN<sub>2</sub>O<sub>7</sub> LAYERED MANGANITE</b> .....	1763
<i>M Kumaresavanji, M S Reis, Y T Xing, M B Fontes</i>	
<b>INVERSE THERMAL HYSTERESIS AND PECULIAR TRANSPORT PROPERTIES OF LA<sub>0.9</sub>MNO<sub>3-δ</sub> FILM</b> .....	1769
<i>V Markovich, G Jung, S I Khartsev, M I Tsindlekht, A M Grishin, Ya Yuzhelevski, G Gorodetsky</i>	
<b>SIMPLE MODEL FOR DETECTION OF SPIN ACCUMULATION IN A FERROMAGNETIC DOUBLE TUNNEL JUNCTION</b> .....	1773
<i>S Mitani</i>	
<b>HALF-METALLIC BEHAVIOR OF CO<sub>2</sub>MNSI/CO<sub>2</sub>MNAL/MGO INTERFACE AND ITS COHERENT TUNNELING CONDUCTANCE</b> .....	1777
<i>Yoshio Miura, Kazutaka Abe, Masafumi Shirai</i>	
<b>APPEARANCE OF FERROMAGNETISM IN HEUSLER ALLOY RU<sub>2</sub>MN<sub>1-x</sub>V<sub>x</sub>GE</b> .....	1781
<i>S Mizusaki, A Douzono, T Ohnishi, Y Nagata, T C Ozawa, H Samata, Y Noro</i>	
<b>SPIN-TRANSFER SWITCHING IN MAGNETIC TUNNEL JUNCTIONS WITH SYNTHETIC FERRI-MAGNETIC FREE LAYER</b> .....	1797
<i>M Nishimura, M Oogane, H Naganuma, N Inami, S Ikeda, H Ohno, Y Ando</i>	
<b>SPIN TRANSISTOR BASED ON DOUBLE TUNNEL JUNCTIONS USING HALF-METALLIC CO<sub>2</sub>MNSI ELECTRODES</b> .....	1801
<i>Yusuke Ohdaira, Mikihiro Oogane, Hiroshi Naganuma, Yasuo Ando</i>	
<b>UNIVERSAL CONDUCTANCE FOR THE ANDERSON MODEL</b> .....	1805
<i>L N Oliveira, M Yoshida, A C Seridonio</i>	

<b>MAGNETORESISTANCE OF CUCRO<sub>2</sub>-BASED DELAFOSSITE FILMS</b> .....	1809
<i>M O'Sullivan, P Stamenov, J Alaria, M Venkatesan, J M D Coey</i>	
<b>MAGNETORESISTANCE MEASUREMENTS IN PERMALLOY CLUSTERS ELECTRODEPOSITED ON SILICON</b> .....	1813
<i>A A Pasa, A Ballestar, R G Delatorre, C I L De Araújo, N Garcia</i>	
<b>MANIFESTATION OF SPIN-HALL EFFECT IN MULTILAYERED M/N/M FILM STRUCTURES</b> .....	1817
<i>Y Pogoryelov, J Åkerman</i>	
<b>μSR STUDY OF ELECTRON RADICAL DYNAMICS IN REGIO-REGULAR POLYTHIOPHENE</b> .....	1821
<i>Risdiana, Fitriawati, R Hidayat, R E Siregar, M O Tjia, I Watanabe</i>	
<b>LOW-TEMPERATURE RESISTIVITY OF POLYCRYSTALLINE (LA<sub>0.5</sub>EU<sub>0.5</sub>)<sub>0.7</sub>PB<sub>0.3</sub>MNO<sub>3</sub> IN A MAGNETIC FIELDS</b> .....	1825
<i>K A Shaykhutdinov, S I Popkov, S V Semenov, D A Balaev, A A Dubrovskiy, K A Sablina, N V Volkov</i>	
<b>N-TYPE CURRENT-VOLTAGE CHARACTERISTICS OF MANGANITES</b> .....	1829
<i>V K Karpasyuk, A G Badelin, A M Smirnov, V V Sorokin, A Evseeva, E Doyutova, A A Shchepetkin</i>	
<b>TRANSPORT OBSERVABLES FOR A FNF MESOSCOPIC SYSTEM IN THE EXTREME QUANTUM LIMIT REGIME</b> .....	1833
<i>A M C Souza, S Rodriguez-Pérez, A M S Macêdo</i>	
<b>TEMPERATURE AND BIAS VOLTAGE DEPENDENCE OF TUNNEL MAGNETORESISTANCE EFFECT IN MAGNETIC TUNNEL JUNCTIONS WITH CO<sub>2</sub>FE(AL,SI) ELECTRODES FABRICATED BY MBE</b> .....	1837
<i>N Tezuka, T Saito, K Kikuchi, A Sasaki, F Mitsuhashi, N Ikeda, S Sugimoto, T Takenaga</i>	
<b>RESIDUAL RESISTIVITY AND ITS ANISOTROPY IN RANDOM CONI AND CUNI FERROMAGNETIC ALLOYS</b> .....	1841
<i>I Turek, T Zálezák</i>	
<b>FLUCTUATION THEOREM IN SPINTRONICS</b> .....	1845
<i>Y Utsumi, H Imamura</i>	
<b>CURRENT CHANNEL SWITCHING IN THE MANGANITE-BASED MULTILAYER STRUCTURE</b> .....	1849
<i>N V Volkov, E V Eremin, G S Patrin, P D Kim, Yu Seong-Cho, Dong-Hyun Kim, Nguyen Chau</i>	
<b>LOW RESISTANCE MAGNETIC TUNNEL JUNCTIONS WITH MGO WEDGE BARRIER</b> .....	1853
<i>J Wrona, J Langer, B Ocker, W Maass, J Kanak, T Stobiecki, W Powroznik</i>	
<b>VORTEX-LIKE STATE OBSERVED IN FERROMAGNETIC CONTACTS</b> .....	1857
<i>I K Yanson, Yu G Naidyuk, V V Fisun, O P Balkashin, L Yu Triputen, A Konovalenko, V Korenivski</i>	
<b>INFLUENCE OF THE DEVELOPING MAGNETIC ORDER ON THE TRANSPORT PROPERTIES OF EPITAXIAL ZN<sub>1-x</sub>CO<sub>x</sub>O FILMS</b> .....	1861
<i>S Ye, V Ney, T Kammermeier, K Ollefs, S Zhou, H Schmidt, A Ney</i>	

### VOLUME 3

<b>REDUCTION OF CRITICAL CURRENT IN MAGNETIC TUNNEL JUNCTIONS WITH COFEB/RU/COFEB SYNTHETIC FREE LAYER</b> .....	1868
<i>A Zaleski, W Skowronski, M Czapkiewicz, J Kanak, T Stobiecki, R Macedo, S Cardoso, P P Freitas</i>	
<b>PSEUDO SPIN VALVES BASED ON LI<sub>0</sub> (111)-ORIENTED FEPT AND FEPTCU FIXED LAYER WITH TILTED ANISOTROPY</b> .....	1872
<i>C L Zha, Johan Åkerman</i>	

### SPIN ELECTRONICS

<b>SPIN-SPLITTING BAND DISPERSIONS OF THE HEAVY ELEMENTS ON SI(111)-(1×1) SURFACE</b> .....	1876
<i>A Araki, T Nishijima, M Tsujikawa, T Oda</i>	
<b>SPIN-POLARIZATION DYNAMICS IN ELECTRICALLY EXCITED SINGLE INGAAS QUANTUM DOTS</b> .....	1880
<i>Pablo Asshoff, Michael Hetterich, Jochen Zimmer, Heiko Füsler, Wolfgang Löffler, Heinz Kalt</i>	
<b>EXACT AND LDA ENTANGLEMENT OF TAILORED DENSITIES IN AN INTERACTING ONE-DIMENSIONAL ELECTRON SYSTEM</b> .....	1884
<i>J P Coe, I D'Amico</i>	
<b>MAGNETIC PROPERTIES OF MNSE<sub>1-x</sub>TE<sub>x</sub> SOLID SOLUTIONS</b> .....	1888
<i>O F Demidenko, G I Makovetskii, K I Yanushkevich, S S Aplesnin, L I Ryabinkina, O B Romanova</i>	
<b>MAGNETIC PROPERTIES OF MAGNETIC SEMICONDUCTOR GAAS:ER,O STUDIED BY ESR</b> .....	1892
<i>Masashi Fujisawa, Atsushi Asakura, Fatma Elmasry, Susumu Okubo, Hitoshi Ohta, Yasufumi Fujiwara</i>	
<b>CU-DOPED GAN GROWN BY MOLECULAR BEAM EPITAXY</b> .....	1896
<i>P R Ganz, C Sürgers, G Fischer, D M Schaadt</i>	
<b>ORBITAL-DEPENDENT KONDO EFFECT FOR FE IN AU : COMBINED APPROACH OF DENSITY FUNCTIONAL THEORY AND QUANTUM MONTE CARLO METHOD</b> .....	1900
<i>Bo Gu, Jing-Yu Gan, Nejat Bulut, Guang-Yu Guo, Naoto Nagaosa, Sadamichi Maekawa</i>	
<b>ANGULAR DEPENDENCE OF SPIN TRANSFER TORQUE ON MAGNETIC TUNNEL JUNCTIONS WITH SYNTHETIC FERRIMAGNETIC FREE LAYER</b> .....	1904
<i>M Ichimura, T Hamada, H Imamura, S Takahashi, S Maekawa</i>	
<b>CRYSTALLOGRAPHIC AND OPTICAL PROPERTIES OF MN-SUBSTITUTED II-VI BASED MAGNETIC SEMICONDUCTOR FILMS</b> .....	1908
<i>M Imamura, T Yamaguchi</i>	

<b>SPIN RESONANCE OF ELECTRONS CONFINED BY SIGE NANOSTRUCTURES</b> .....	1912
<i>F Lipps, F Pezzoli, M Stoffel, A Rastelli, V Kataev, O G Schmidt, B Büchner</i>	
<b>LOW-TEMPERATURE GROWTH OF HIGHLY CRYSTALLIZED FETIO<sub>3</sub>-FE<sub>2</sub>O<sub>3</sub> SOLID SOLUTION THIN FILMS WITH SMOOTH SURFACE MORPHOLOGY</b> .....	1916
<i>Tomohiko Matoba, Koji Fujita, Shunsuke Murai, Katsuhisa Tanaka</i>	
<b>LOCAL MAGNETISM OF CO<sub>2</sub>MNSN HEUSLER ALLOY FILMS AND MAGNETORESISTANCE OF CO<sub>2</sub>MNSN-BASED MAGNETIC TUNNEL JUNCTIONS</b> .....	1920
<i>K Mibu, D Gondo, T Hori, M A Tanaka, K Kondou, S Kasai, T Ono</i>	
<b>EPITAXIAL GROWTH OF FERRIMAGNETIC SEMICONDUCTOR 0.4FE<sub>3</sub>O<sub>4</sub> 0.6FE<sub>2</sub>TIO<sub>4</sub> SOLID SOLUTION THIN FILMS ON MGO(100) SUBSTRATES</b> .....	1924
<i>Hideaki Murase, Koji Fujita, Shunsuke Murai, Katsuhisa Tanaka</i>	
<b>DETECTION OF INVERSE SPIN-HALL EFFECT INDUCED IN PT<sub>1-x</sub>M<sub>x</sub> (M = CU, AU) THIN FILMS</b> .....	1928
<i>H Nakayama, K Ando, K Harii, Y Kajiwara, T Yoshino, K Uchida, T Ota, E Saitoh</i>	
<b>ELECTRIC FIELD EFFECTS IN ZIGZAG EDGED GRAPHENE NANORIBBONS</b> .....	1932
<i>Takao Nomura, Daisuke Yamamoto, Susumu Kurihara</i>	
<b>CONDUCTANCE OSCILLATION IN FERROMAGNETIC-METAL/ NONMAGNETIC-METAL/SUPERCONDUCTOR DOUBLE JUNCTIONS</b> .....	1936
<i>Hiroyuki Ohtori, Katsuyoshi Matsushita, Nobuhiko Yokoshi, Hiroshi Imamura</i>	
<b>PHOTOVOLTAIC BERRY CURVATURE IN THE HONEYCOMB LATTICE</b> .....	1940
<i>Takashi Oka, Hideo Aoki</i>	
<b>MAGNETIC PROPERTIES AND PHASE STABILITY OF CO<sub>2</sub>(TI<sub>1-x</sub>MN<sub>x</sub>)GA HEUSLER ALLOYS</b> .....	1944
<i>A Okubo, R Y Umetsu, R Kainuma, K Ishida</i>	
<b>SYNTHETIC COFEB/RU/NIFE FREE LAYER ON MGO BARRIER LAYER FOR SPIN TRANSFER SWITCHING</b> .....	1948
<i>Takuya Ono, Hiroshi Naganuma, Mikihiro Oogane, Yasuo Ando</i>	
<b>ELECTRIC DETECTION OF THE SPIN-SEEBECK EFFECT IN NI AND FE THIN FILMS AT ROOM TEMPERATURE</b> .....	1952
<i>T Ota, K Uchida, Y Kitamura, T Yoshino, H Nakayama, E Saitoh</i>	
<b>MAGNETIC PROPERTIES OF FESI WITH COBALT IMPURITIES</b> .....	1956
<i>G S Patrin, V V Beletsky, D A Velikanov, G Yu Yurkin</i>	
<b>THE MAGNETIC PROPERTIES OF (CR, V)-DOPED ZNGEN<sub>2</sub></b> .....	1960
<i>J Rufinus</i>	
<b>THE ORIGIN OF DISPERSION OF MAGNETORESISTANCE OF A DOMAIN WALL SPIN VALVE</b> .....	1964
<i>Jun Sato, Katsuyoshi Matsushita, Hiroshi Imamura</i>	
<b>MAGNETO-OPTICAL PROPERTIES OF CO/ZNO MULTILAYER FILMS</b> .....	1968
<i>David S Score, Marzook Alshammari, Qi Feng, Harry J Blythe, A Mark Fox, Gillian A Gehring, Zhi-Yong Quan, Xiao-Li Li, Xiao-Hong Xu</i>	
<b>ROOM-TEMPERATURE FERROMAGNETIC BEHAVIOUR OF INMNAS FILMS GROWN BY LASER ABLATION TECHNIQUE</b> .....	1972
<i>Danilov Yury, Drozdov Yury, Kudrin Alexey, Vikhrova Olga, Zvonkov Boris, Sapozhnikov Maxim, Fetisov Leonid, Semisalova Anna, Perov Nikolai</i>	
<b>SPIN HALL CURRENT AND SPIN-TRANSFER TORQUE IN FERROMAGNETIC METAL</b> .....	1976
<i>Junya Shibata, Hiroshi Kohno</i>	
<b>DEVICE DEGRADATION AND THE CIRCULAR POLARIZATION OF THE ELECTRO-PHOSPHORESCENT ORGANIC LIGHT-EMITTING DIODE WITH A FERROMAGNETIC CATHODE</b> .....	1980
<i>E Shikoh, E Nakagawa, A Fujiwara</i>	
<b>IRON AND COBALT CO-DOPING OF SINGLE CRYSTALLINE TITANIUM DIOXIDE</b> .....	1984
<i>C Silva, M M Cruz, R C Da Silva, L C Alves, M Godinho</i>	
<b>STUDY OF ROOM TEMPERATURE FERROMAGNETISM FOR COBALT AND MANGANESE DOPED ZNO DILUTED MAGNETIC SEMICONDUCTOR</b> .....	1988
<i>R K Singhal, Arvind Samariya, Y T Xing, S N Dolia, Sudhish Kumar, U P Deshpande, T Shripathi, Elisa Saitovitch</i>	
<b>SPIN CURRENT THROUGH A NORMAL-METAL/INSULATING-FERROMAGNET JUNCTION</b> .....	1994
<i>S Takahashi, E Saitoh, S Maekawa</i>	
<b>SPIN-CHARGE CONVERSION VIA THE RASHBA SPIN-ORBIT INTERACTION IN SPIN PUMPING SYSTEMS</b> .....	1998
<i>Akihito Takeuchi, Kazuhiro Hosono, Gen Tatara</i>	
<b>MAGNETIC AND TRANSPORT PROPERTIES OF SPIN-FILTERING TUNNEL JUNCTIONS WITH MAGNETIC INSULATOR LA<sub>2</sub>NIMNO<sub>6</sub></b> .....	2002
<i>M A Tanaka, Y Shiji, T Katsuragi, Y Miyazaki, K Mibu, K Kondou, S Kasai, T Ono</i>	
<b>FIELD-LIKE SPIN TORQUE IN MAGNETIC TUNNEL JUNCTIONS</b> .....	2006
<i>Y-H Tang, N Kioussis, A Kalitsov, W H Butler, R Car</i>	
<b>TIME EVOLUTION OF SPIN ACCUMULATION AND SPIN CURRENT IN A MAGNETIC DOMAIN WALL</b> .....	2010
<i>Tomohiro Taniguchi, Hiroshi Imamura</i>	
<b>FABRICATION OF PLANAR-TYPE FERROMAGNETIC TUNNEL JUNCTIONS USING ELECTROMIGRATION METHOD AND ITS MAGNETORESISTANCE PROPERTIES</b> .....	2014
<i>Y Tomoda, M Hanada, W Kume, S Itami, T Watanabe, J Shirakashi</i>	
<b>ELECTRONIC SPECIFIC HEAT COEFFICIENT AND MAGNETIC PROPERTIES OF L<sub>2</sub> PHASE IN CO<sub>2</sub>YGA (Y = CR, MN AND FE) HEUSLER ALLOYS</b> .....	2018
<i>R Y Umetsu, N Endo, A Fujita, R Kainuma, A Sakuma, K Fukamichi, K Ishida</i>	

<b>STRUCTURAL AND MAGNETIC PROPERTIES OF MN<sub>2.5</sub>GA FILMS</b> .....	2022
<i>F Wu, S Mizukami, D Watanabe, H Naganuma, M Oogane, Y Ando, T Miyazaki</i>	
<b>DETECTION OF INVERSE SPIN-HALL EFFECT IN NB AND NB<sub>40</sub>TI<sub>60</sub> THIN FILMS</b> .....	2026
<i>T Yoshino, Y Kajiwara, K Ando, H Nakayama, T Ota, K Uchida, E Saitoh</i>	
<b>ROOM-TEMPERATURE FERROMAGNETISM IN DILUTED MAGNETIC SEMICONDUCTOR PB<sub>1-x</sub>CR<sub>x</sub>TE</b> .....	2030
<i>E A Zvereva, E P Skipetrov, O A Savelieva, N A Pichugin, A E Primenko, E I Slyn'Ko, V E Slyn'Ko</i>	
<b>MAGNETIC PROPERTIES OF GE<sub>1-x</sub>MN<sub>x</sub>TE FERROMAGNETIC SEMICONDUCTORS DOPED WITH GADOLINIUM</b> .....	2034
<i>E A Zvereva, E P Skipetrov, O A Savelieva, N A Pichugin, A E Primenko, V P Akishina, E I Slyn'Ko, V E Slyn'Ko</i>	

## **MAGNETIC THIN FILMS, PARTICLES, AND NANOSTRUCTURES**

<b>ALNICO THIN FILMS WITH HIGH COERCIVITIES UP TO 6.9 KOE</b> .....	2038
<i>Ozan Akdogan, George C Hadjipanayis</i>	
<b>FORC STUDIES OF EXCHANGE BIASED NIFE IN L1<sub>0</sub>(111) FEPT-BASED SPIN VALVE</b> .....	2042
<i>Yeyu Fang, C L Zha, Stefano Bonetti, Johan Åkerman</i>	
<b>MAGNETIZATION REVERSAL OF FE/GD MULTILAYERS ON SELF-ASSEMBLED ARRAYS OF NANOSPHERES</b> .....	2046
<i>E Amaladass, T Eimüller, B Ludescher, T Tylliszczak, G Schütz</i>	
<b>THEORY OF TWO-DIMENSIONAL MAGNETO-PHOTONIC CRYSTALS USING COMPLEX FOURIER FACTORIZATION</b> .....	2050
<i>Roman Antos, Martin Veis, Stefan Visnovsky</i>	
<b>MAGNETIC INTERACTIONS AND EXCHANGE-BIAS IN NANOCOMPOSITE SYSTEM (FE<sub>1-x</sub>CO<sub>x</sub>)<sub>Y</sub>(MNO)<sub>1-y</sub></b> .....	2054
<i>L R S Araújo, F L A Machado</i>	
<b>MAGNETIC AND STRUCTURAL PROPERTIES OF CO<sub>2</sub>FEAL<sub>1-x</sub>SI<sub>x</sub> THIN FILMS</b> .....	2058
<i>E Arbelo Jorge, M Jourdan, M Kallmayer, P Klaer, H-J Elmers</i>	
<b>NANOSCALE RIPPLE FORMATION IN CO/SI(100) THIN FILMS WITH AR<sup>+</sup> BEAM ETCHING</b> .....	2062
<i>M A Arranz, José M Colino</i>	
<b>ELECTRONIC STRUCTURE AND INTERFACE STATES AT THE FE<sub>3</sub>O<sub>4</sub>/MGO(100) INTERFACE</b> .....	2066
<i>R Arras, L Calmels, B Warot-Fonrose</i>	
<b>COBALT FERRITE THIN FILMS DEPOSITED BY ELECTROPHORESIS ON P-DOPED SI SUBSTRATES</b> .....	2070
<i>J G Barbosa, M R Pereira, J A Mendes, M P Proença, J P Araújo, B G Almeida</i>	
<b>ASSESSMENT OF MAGNETIC FLUID LOSSES OUT OF MAGNETIC PROPERTIES MEASUREMENT</b> .....	2074
<i>M Bekovic, I Ban, A Hamler</i>	
<b>EPR AND INELASTIC NEUTRON SCATTERING IN SPIN-FRUSTRATED V<sub>3</sub> AND CU<sub>3</sub> NANOMAGNETS WITH DZIALOSHINSKY-MORIYA, EXCHANGE</b> .....	2078
<i>Moisey I Belinsky</i>	
<b>EFFECTS OF COATING ON MAGNETIC PROPERTIES IN IRON OXIDE NANOPARTICLES</b> .....	2084
<i>B Bittova, J Poltierova-Vejpravova, A G Roca, M P Morales, V Týrpekl</i>	
<b>MAGNETIC PROPERTIES OF SOLVOTHERMALLY SYNTHESIZED ZNFE<sub>2</sub>O<sub>4</sub> NANOPARTICLES</b> .....	2088
<i>V Blanco-Gutiérrez, M J Torralvo, R Sáez-Puche, P Bonville</i>	
<b>INFLUENCE OF STRUCTURAL TRANSITIONS OF BATIO<sub>3</sub> ON THE MAGNETIC PROPERTIES OF FE NANOPARTICLES</b> .....	2092
<i>R P Borges, R C Da Silva, M M Cruz, M Godinho</i>	
<b>MAGNETOCALORIC PHENOMENA IN MG-FERRITE NANOPARTICLES</b> .....	2096
<i>S Burianova, J Poltierova-Vejpravova, P Holec, J Plocek</i>	
<b>HIGHLY COERCIVE L1<sub>0</sub>-FEPD THIN FILMS GROWN ON MGO SINGLE CRYSTAL SUBSTRATES</b> .....	2100
<i>M Carbucicchio, R Ciprian</i>	
<b>MICROSCOPIC ORIGIN OF PERPENDICULAR MAGNETIC ANISOTROPY IN AMORPHOUS ND-CO HOMOGENEOUS AND COMPOSITIONALLY MODULATED, THIN FILMS STUDIED BY XMCD</b> .....	2104
<i>R Cid, J Díaz, L M Álvarez-Prado, J M Alameda, S M Valvidares, J C Cezar, N B Brookes</i>	
<b>MAGNETIC ANISOTROPY AND EXCHANGE INTERACTIONS IN FE/CO MULTILAYERS GROWN ON DIFFERENT SUBSTRATES</b> .....	2108
<i>R Ciprian, M Carbucicchio</i>	
<b>MAGNETIC PROPERTIES OF NI/CU/NI EPITAXIAL FILMS WITH PERPENDICULAR ANISOTROPY</b> .....	2112
<i>Edna C Corredor, José Luis Diez-Ferrer, David Coffey, José I Arnaudas, Miguel Ciria</i>	
<b>THEORY FOR LONG RANGE MAGNETIC ORDER IN NANOMETER FILMS</b> .....	2116
<i>Bach Thanh Cong, Pham Huong Thao, Pham Thanh Cong</i>	
<b>FIRST-PRINCIPLES STUDY OF THE STRUCTURAL STABILITY OF L1<sub>1</sub> ORDER IN PT-BASED ALLOYS</b> .....	2120
<i>Antje Dannenberg, Markus Ernst Gruner, Peter Entel</i>	
<b>COUPLED MAGNETOSTATIC MODES OF FERROMAGNETIC / ANTIFERROMAGNETIC CYLINDRICAL BILAYERS</b> .....	2124
<i>T K Das, M G Cottam, R N Costa Filho</i>	
<b>MAGNETIZATION REVERSAL IN SINGLE FERROMAGNETIC RECTANGULAR NANOWIRES</b> .....	2128
<i>Alexandre B De Oliveira, Gilvânia L Da Silva, Sergio M Rezende, Antonio Azevedo</i>	
<b>ANOMALOUS MAGNETIC PROPERTIES OF VO<sub>x</sub> MULTIWALL NANOTUBES</b> .....	2132
<i>S V Demishev, A L Chernobrovkin, V V Glushkov, E A Goodilin, A V Grigorieva, T V Ishchenko, A V Kuznetsov, N E Sluchanko, Yu D Tretyakov, A V Semeno</i>	

<b>MAGNETIC AND X-RAY ABSORPTION INVESTIGATIONS OF CO-DOPED ZNO FILMS</b> .....	2136
<i>A Di Trolio, A M Testa, D Fiorani, P Alippi, A Amore Bonapasta, C Veroli, G Ciatto, E Fonda</i>	
<b>SIZE DEPENDENT MAGNETIC BEHAVIOR OF NANOCRYSTALLINE, <math>\text{Ni}_{0.8}\text{Cu}_{0.2}\text{Fe}_2\text{O}_4</math> FERRITE</b> .....	2140
<i>S N Dolia</i>	
<b>MAGNETOELECTRIC COUPLING AT BIFERROIC INTERFACE STUDIED FROM FIRST PRINCIPLES</b> .....	2144
<i>Michael Fechner, Sergey Ostanin, Ingrid Mertig</i>	
<b>MAGNETIC DISORDER IN NANOSTRUCTURED <math>\text{Fe}_7\text{Au}_{93}</math> FILMS AND <math>\text{Fe}_{14}\text{Au}_{86}</math> POWDERS</b> .....	2148
<i>D Alba Venero, L Fernández Barquín, J Alonso, A Svalov, M L Fdez-Gubieda</i>	
<b>STRUCTURE AND MAGNETIC PROPERTIES OF <math>\text{Fe}_2\text{O}_3</math>-<math>\text{FeTiO}_3</math> FILMS</b> .....	2152
<i>Tatsuo Fujii, Tatsuya Sugano, Makoto Nakanishi, Jun Takada</i>	
<b>ROLE OF OXYGEN CONTENT ON THE MAGNETIC PROPERTIES OF EPITAXIAL ANATASE AND RUTILE <math>\text{TiO}_2</math> THIN FILMS</b> .....	2156
<i>P Galinetto, M C Mozzati, C Vercesi, L Malavasi, Y A Diaz Fernandez, F Rossella, G Drera, L Sangaletti</i>	
<b>PERMALLOY NANOSTRUCTURES FOR MAGNETO-IMPEDANCE MEASUREMENTS</b> .....	2160
<i>S Getlawi, M König, H Gao, M R Koblischka, U Hartmann</i>	
<b>MAGNETIC PROPERTIES OF FERROMAGNETIC NANOWIRE ARRAYS: THEORY AND EXPERIMENT</b> .....	2164
<i>A Ghaddar, F Gloaguen, J Gieraltowski</i>	
<b>LOGIC OPERATIONS AND DATA STORAGE USING VORTEX MAGNETIZATION STATES IN MESOSCOPIC PERMALLOY RINGS, AND OPTICAL READOUT</b> .....	2169
<i>S R Bowden, U J Gibson</i>	
<b>MORPHOLOGY AND MAGNETIC PROPERTIES OF SPUTTERED <math>\text{Co}_{80}\text{Cr}_{20}</math> THIN FILM ANTIDOT PATTERNS OBTAINED BY ELECTRON BEAM LITHOGRAPHY</b> .....	2173
<i>S Gürdanella, E Celasco, A Chiolerio, P Martino, P Pandolfi, F Celegato</i>	
<b>EXCHANGE BIAS PROPERTIES AND SURFACE SPINS FREEZING IN FERRITE NANOPARTICLES OF MAGNETIC NANOCOLLOIDS</b> .....	2177
<i>F G Silva, R Aquino, V Dupuis, J Depeyrot, F A Tourinho, R Perzynski</i>	
<b>GROWTH AND SHAPE DIRECTIONALITY OF DOMAINS IN EXCHANGE-COUPLED FERROMAGNET/ANTIFERROMAGNET BILAYERS</b> .....	2182
<i>V Gornakov, C G Lee</i>	
<b>FERROMAGNETIC NANOSTRUCTURE ARRAYS SELF-ASSEMBLED IN MESOPOROUS SILICON</b> .....	2186
<i>P Granitzer, K Rumpf, P Poelt, H Plank, M Albu</i>	
<b>A COMPARATIVE STUDY OF <math>(\text{Fe}, \text{Fe}_3\text{Si})/\text{GAAS}</math> AND HEUSLER/MGO FOR SPINTRONICS APPLICATIONS</b> .....	2191
<i>A Grünebohm, M Siewert, H C Herper, M E Gruner, P Entel</i>	
<b>CORE-SHELL MORPHOLOGIES OF FEPT AND COPT NANOPARTICLES: AN AB INITIO COMPARISON</b> .....	2195
<i>Markus Ernst Gruner</i>	
<b>ATOMISTIC SPIN DYNAMICS SIMULATIONS ON MN-DOPED GAAS AND CUMN</b> .....	2199
<i>Johan Hellsvik</i>	
<b>SYNTHESIS OF MULTIFERROIC BIFE<math>\text{O}_3</math> NANOPARTICLES</b> .....	2203
<i>Toshiyuki Mashino, Shinji Kimura, Daiki Shigeoka, Tomoyuki Hiroki, Hikaru Katayanagi, Yuki Moro, Yuko Ichihyanagi</i>	
<b>FE MAGNETIC IMPURITY EFFECT IN AU ATOMIC SIZED CONDUCTOR</b> .....	2207
<i>Koichiro Ienaga, Yuji Inagaki, Tatsuya Kawae, Hiroyuki Tsujii</i>	
<b>EQUATORIAL KERR EFFECT IN MAGNETITE MAGNETIC FLUIDS</b> .....	2211
<i>Lali Kalandadze</i>	
<b>ELECTRONIC, STRUCTURAL AND MAGNETIC CHARACTERIZATION OF BULK <math>(\text{ZNO})_{1-x}(\text{MNO}_2)_x</math> SYSTEM AND THEIR PLD SYNTHESIZED THIN FILMS AT ROOM TEMPERATURE</b> .....	2215
<i>S Karamat, R S Rawat, M Ghaffari, P Lee, T L Tan</i>	
<b>FERROMAGNETIC CU AND AL DOPED ZNO THIN FILMS BY PLD</b> .....	2220
<i>S Karamat, R S Rawat, P Lee, T L Tan</i>	
<b>MAGNETIC ANISOTROPIES IN GAAS/FE(001) STRUCTURES</b> .....	2225
<i>Bartek Kardasz, Oleksandr Mosendz, Bret Heinrich, Marek Przybylski, Jiirgen Kirschner</i>	
<b>MAGNETIC IRREVERSIBILITY, SPIN-WAVE EXCITATIONS AND MAGNETOCALORIC EFFECT IN NANOCRYSTALLINE GADOLINIUM</b> .....	2229
<i>S P Mathew, S N Kaul, A K Nigam, A - C Probst, R Birringer</i>	
<b>HEXAFERRITE SUBMICRON AND NANOPARTICLES WITH VARIABLE SIZE AND SHAPE VIA GLASS-CERAMIC ROUTE</b> .....	2233
<i>P E Kazin, L A Trusov, S E Kushnir, N V Yaroshinskaya, N A Petrov, M Jansen</i>	
<b>METALLIC IRON-BASED NANOPARTICLES FOR BIOMEDICAL APPLICATIONS</b> .....	2237
<i>H Khurshid, V Tzitzios, L Colak, F Fang, G C Hadjipanayis</i>	
<b>TEMPERATURE DEPENDENCE OF THE HIGH-FIELD MAGNETIZATION IN FE-AG GRANULAR ALLOYS AND DISCONTINUOUS MULTILAYERS</b> .....	2245
<i>L F Kiss, J Balogh, L Bujdosó, D Kaptás, F Tanczikó, I Vincze</i>	
<b>MAGNETIC ANISOTROPY IN FE NANOCRYSTALS FABRICATED BY GDM</b> .....	2249
<i>E Kita, H Sato, N Tsukahara, S J Lee, H Yanagihara, H Tanimoto</i>	
<b>LOCAL EXCHANGE ANISOTROPY OF MICROSTRUCTURED COFE / MNIR (001) BILAYERS</b> .....	2253
<i>T Kobayashi, H Kato, T Kato, S Tsunashima, S Iwata</i>	
<b>STUDY OF GRAIN MORPHOLOGY OF VARIOUS MAGNETITE SAMPLES BY MEANS OF EBSD</b> .....	2257
<i>A Koblischka-Veneva, M R Koblischka</i>	

<b>PRESSURE-INDUCED ENHANCEMENT OF THE BLOCKING TEMPERATURE IN FEPT NANOPARTICLES</b> .....	2261
<i>Y Komorida, M Mito, H Deguchi, S Takagi, T Iwamoto, Y Kitamoto</i>	
<b>THE SENSITIVITY OF FERRONEMATICS TO EXTERNAL MAGNETIC FIELDS</b> .....	2265
<i>P Kopcanský, N Tomašovicová, M Timko, M Koneracká, V Závěšová, L Tomco, J Jadrzyn</i>	
<b>LOCALIZED MAGNETOSTATIC MODES AS GUIDING WAVES IN FERROMAGNETIC NANOSTRIPES</b> .....	2269
<i>Maciej Krawczyk</i>	
<b>SYNTHESIS AND MAGNETIC PROPERTIES OF PVP COATED COPPER-CHROMIUM HEXACYANIDE NANOPARTICLES</b> .....	2273
<i>Amit Kumar, S M Yusuf, J V Yakhmi</i>	
<b>MAGNETIC PROPERTIES OF NANOCRYSTALLINE ZNO DOPED WITH MNO AND COO</b> .....	2277
<i>I Kuryliszyn-Kudelska, W D Dobrowolski, L Kilanski, B Hadžić, N Romcević, D Sibera, U Narkiewicz, P Dziawa</i>	
<b>EXACT CANONICAL AND GRAND CANONICAL DESCRIPTIONS OF THE PAIRING IN SPHERICAL MESOSCOPIC SYSTEMS</b> .....	2281
<i>N K Kuzmenko, V M Mikhajlov</i>	
<b>SPIN-GLASS-LIKE CHARACTERISTICS OF EXTREMELY SMALL <math>\gamma</math>-<math>Fe_2O_3</math> NANOPARTICLES</b> .....	2285
<i>E S Leite, J A H Coaquira, W R Viali, P P C Sartoratto, R L De Almeida, P C Morais, S K Malik</i>	
<b>MAGNETIC PROPERTIES OF CARBON NANOTUBES WITH AND WITHOUT CATALYST</b> .....	2289
<i>Kamil Lipert, Manfred Ritschel, Albrecht Leonhardt, Yulia Krupskaya, Bernd Büchner, Rüdiger Klingeler</i>	
<b>MAGNETIC PROPERTIES OF <math>\alpha</math>-FE AND <math>Fe_3C</math> NANOWIRES</b> .....	2293
<i>M U Lutz, U Weissker, F Wolny, C Müller, M Löffler, T Mühl, A Leonhardt, B Büchner, R Klingeler</i>	
<b>POLE-REVERSAL OF MAGNETIZATION IN CORE-SHELL TYPE <math>La_{1-x}Ce_xCrO_3</math> (X = 0.8-1.0) NANOPARTICLES</b> .....	2297
<i>P K Manna, S M Yusuf, R Shukla, A K Tyagi</i>	
<b>ON THE MAGNETIC PROPERTIES OF F/AF CA-DOPED LANTHANUM MANGANITE BILAYERS: APPROACH TO INTERFACE EFFECTS</b> .....	2301
<i>L Marin, J-G Ramirez, M E Gómez</i>	
<b>MAGNETIC PROPERTIES OF FECO NANOPARTICLES ENCAPSULATED IN CARBON</b> .....	2305
<i>M Maryško, R Fajgar, J Šubrt, N Muraša, K Knížek</i>	
<b>SW PARAMETER IN MAGNETIC MULTILAYERS WITH ROUGH INTERFACE</b> .....	2310
<i>Z Mohammad Hosseini Naveh, H Moradi</i>	
<b>EFFECT OF SYNTHESIS ROUTE ON THE MAGNETIC PROPERTIES OF (CD, CU)<sub>0.5</sub>NI<sub>0.5</sub>FE<sub>2</sub>O<sub>4</sub> OXIDES</b> .....	2316
<i>J Z Msomi, T Moyo</i>	
<b>AB INITIO CALCULATION ON MAGNETISM OF MONATOMIC FE NANOWIRE ON AU (111) SURFACE</b> .....	2320
<i>Takashi Yasui, Masahiko Nawate</i>	
<b>MAGNETIC PROPERTIES OF <math>SrTiO_3/Pr_{2/3}Ca_{1/3}MnO_3</math> MULTILAYERS</b> .....	2324
<i>D Niebieskikwiat, N F Haberkorn, S R Guitarra, J Guimpel</i>	
<b>MAGNETIC PROPERTIES OF <math>Fe_{2-x}Al_xCOO_4</math> (0 = X = 1) NANOPARTICLES</b> .....	2328
<i>Nikolina Novosel, Damir Pajic, A T Raghavender, Krešo Zadro, K M Jadhav</i>	
<b>MICROSTRUCTURE OF CO(1120) EPITAXIAL THIN FILMS, GROWN ON MGO(100) SINGLE-CRYSTAL SUBSTRATES</b> .....	2332
<i>Yuri Nukaga, Mitsuru Ohtake, Fumiyoshi Kirino, Masaaki Futamoto</i>	
<b>PREPARATION OF HCP-NI(1120) EPITAXIAL THIN FILMS ON AU(100) SINGLE-CRYSTAL UNDERLAYERS</b> .....	2336
<i>Mitsuru Ohtake, Takahiro Tanaka, Fumiyoshi Kirino, Masaaki Futamoto</i>	
<b>NUMERICAL SIMULATION OF CURRENT-DRIVEN MAGNETIZATION DYNAMICS IN THREE-LAYERED MAGNETIC STRUCTURES</b> .....	2340
<i>N Ostrovskaya, V Polyakova, A Popkov</i>	
<b>AGING EXPERIMENTS IN A SUPERSPIN GLASS SYSTEM OF CO PARTICLES IN MN MATRIX</b> .....	2344
<i>D Peddis, M Hudl, C Binns, D Fiorani, P Nordblad</i>	
<b>MEMORY, RELAXATION AND AGING EFFECT IN <math>Pr_{0.5}Sr_{0.5}MnO_3</math> NANOPARTICLES</b> .....	2348
<i>A K Pramanik, A Banerjee</i>	
<b>THE INFLUENCE OF ELECTRON IRRADIATION ON THE MAGNETIC PROPERTIES OF CARBON NANOTUBES FILLED WITH FE-PHASES COMPOSITE</b> .....	2352
<i>A L Prudnikava, B G Shulitski, V A Labunov, K I Yanushkevich, O F Demidenko, F P Korshunov, V K Tochilin, A S Basaev</i>	
<b>HYDROTHERMAL SYNTHESIS AND MAGNETIC PROPERTIES OF MN DOPED ZNS NANOPARTICLES</b> .....	2357
<i>M M Rashad, D A Rayan, K El-Barawy</i>	
<b>HOLE MASK COLLOIDAL LITHOGRAPHY ON MAGNETIC MULTILAYERS FOR SPIN TORQUE APPLICATIONS</b> .....	2362
<i>Sohrab R Sani, Johan Persson, Alexander Dmitriev, Mikael Käll, Johan Åkerman</i>	
<b>MAGNETO-OPTICAL SPECTRA OF MN-GE FILMS</b> .....	2366
<i>F Ricci, F D'Orazio, A Continenza, F Lucari, M Passacantando, G Impellizzeri, F Priolo, A J Freeman</i>	
<b>MAGNETIZATION AND SPECIFIC HEAT OF NANOCRYSTALLINE RARE-EARTH TBAL<sub>2</sub>, TBCU<sub>2</sub> AND GDAL<sub>2</sub> ALLOYS</b> .....	2370
<i>D P Rojas, L Fernández Barquín, J Rodríguez Fernandez, J I Espeso, J C Gómez Sal</i>	
<b>METAL/SEMICONDUCTOR HYBRID SYSTEM WITH TWO MAGNETIC TERMS DEPENDENT ON THE FIELD REGION</b> .....	2374
<i>K Rumpf, P Granitzer, P Poelt</i>	

<b>MAGNETIC CHARACTERIZATION OF FE NANOPARTICLES DISPERSED IN PHYLLOSILICATE TYPE SILICON OXIDE</b> .....	2378
<i>V Sagredo, O Peña, T E Torres, A Loaiza-Gil, M Villarroel, M De La Cruz, J Balbuena</i>	
<b>CHARACTERIZATION OF GEOMETRICALLY FRUSTRATED <math>Zn_{1-x}Mn_xAl_2O_4</math> THIN FILMS PREPARED BY METALORGANIC AEROSOL DEPOSITION</b> .....	2382
<i>R D Sánchez, M E Saleta, O Shapoval, K Gehrke, V Moshnyaga, K Samwer</i>	
<b>NANOCRYSTALS OF <math>Zn_{1-x}Mn_xO</math> (M = CO, MN) BY PROTEIC SOL-GEL PROCESS</b> .....	2386
<i>D A A Santos, A D P Rocha, J G S Duque, M A Macedo</i>	
<b>THE EFFECT OF DIPOLAR INTERACTIONS IN CLUSTERS OF MAGNETIC NANOCRYSTALS</b> .....	2390
<i>V Schaller, G Wahnström, A Sanz-Velasco, P Enoksson, C Johansson</i>	
<b>MAGNETIC AND STRUCTURAL PROPERTIES OF COBALT FERRITE THIN FILMS AND STRUCTURES</b> .....	2394
<i>S Schnittger, C Jooss, S Sievers</i>	
<b>MAGNETIC, OPTICAL AND MAGNETO-OPTICAL PROPERTIES OF PLD GROWN <math>EuH_2</math> FILMS</b> .....	2398
<i>J Schoenes, H Schröter, B Lobbenmeier, D Menzel, M De Raychaudhury, S K De</i>	
<b>INVESTIGATION OF MAGNETIC ANISOTROPY IN CO NANOPARTICLES USING FERROMAGNETIC RESONANCE TECHNIQUE</b> .....	2402
<i>A Sendilkumar, Manasi Kasture, Pitamber Patel, C V Ramana, B L V Prasad, S Srinath</i>	
<b>DIPOLAR INTERACTION IN DENSE CHAINS OF SUBMICROMETRIC RECTANGULAR DOTS</b> .....	2406
<i>M Sepioni, M Madami, S Tacchi, G Gubbiotti, G Carlotti, D Bisero, A O Adeyeye, N Singh, S Goolaup</i>	
<b>FMR STUDIES ON NANOCRYSTALLINE ZINC FERRITE THIN FILMS</b> .....	2411
<i>M Sultan, R Singh</i>	
<b>XANES AND XMCD STUDIES OF FERH AND CORH NANOPARTICLES</b> .....	2415
<i>A Smekhova, N Atamena, D Ciuculescu, P Lecante, F Wilhelm, C Amiens, A Rogalev</i>	
<b>SELF-ASSEMBLY GROWTH AND STRUCTURE STUDY OF <math>BiFeO_3</math>-<math>CoFe_2O_4</math> NANOSTRUCTURE FILM</b> .....	2419
<i>Q Song, X Y Zhang, C K Ong</i>	
<b>MAGNETIC FIELD ASSISTED HYDROTHERMAL SYNTHESIS OF <math>CoFe_2O_4</math> NANOWIRES</b> .....	2423
<i>N S Gajbhiye, S Srivastava, S Kurian, B R Behta, V N Singh</i>	
<b>SCHOTTKY BARRIERS OF RARE-EARTH TRANSITION-METAL INTERMETALLICS ON SILICON</b> .....	2427
<i>P Stamenov, T Jochmann, M Venkatesan, J M D Coey</i>	
<b>INFLUENCE OF PARTICLE SIZE DISTRIBUTIONS ON MAGNETORHEOLOGICAL FLUID PERFORMANCES</b> .....	2431
<i>H Chiriac, G Stoian</i>	
<b>EFFECT OF MAGNETIC FLUX PENETRATION ON THE MAGNETIC HYSTERESIS LOOPS OF A PT/CO/PT TRIPLE LAYER ON NB(110)</b> .....	2435
<i>N Joshi, C Sürgers, H V Löhneysen, W Löffler, H Kalt</i>	
<b>ELECTRONIC STRUCTURE AND MAGNETIC PROPERTIES OF <math>TiO_2</math>-<math>MnTiO_3</math> EUTECTICS</b> .....	2439
<i>M Szubka, E Talik, K Kolodziejak, D A Pawlak</i>	
<b>CONTROLLED ARRANGEMENT OF FEPT NANOPARTICLES ON SI SUBSTRATE</b> .....	2443
<i>Y Tamada, S Yamamoto, S Nasu, T Ono</i>	
<b>DIELECTRIC PROPERTIES OF TRANSFORMER PAPER IMPREGNATED BY MINERAL OIL BASED MAGNETIC FLUID</b> .....	2447
<i>M Timko, P Kopcanský, K Marton, L Tomco, M Koneracká</i>	
<b>MAGNETIC PROPERTIES OF COLLOIDAL COBALT NANOCCLUSERS</b> .....	2451
<i>R Torchio, C Meneghini, S Mobilio, G Capellini, A Garcia Prieto, J Alonso, M L Fdez-Gubieda, V Turco Liveri, A Longo, A M Ruggirello, T Neisius</i>	
<b>MAGNETIC PROPERTIES AND ENERGY ABSORPTION OF <math>CoFe_2O_4</math> NANOPARTICLES FOR MAGNETIC HYPERTHERMIA</b> .....	2455
<i>T E Torres, A G Roca, M P Morales, A Ibarra, C Marquina, M R Ibarra, G F Goya</i>	
<b>OBSERVATION OF TWO KINDS OF ESR SPECTRA IN FEPT NANOPARTICLES</b> .....	2459
<i>H Tsuruda, Y Komorida, M Mito, H Deguchi, S Takagi, T Iwamoto, Y Kitamoto</i>	
<b>MONTE CARLO STUDY ON MAGNETIC NANOPARTICLES FROM FIRST PRINCIPLE</b> .....	2463
<i>Laszlo Balogh, Kristof M Lebecki, Bence Lazarovits, Laszlo Udvardi, Laszlo Szunyogh, Ulrich Nowak</i>	
<b>INTERLAYER EXCHANGE COUPLING IN PERPENDICULARLY MAGNETIZED SYNTHETIC FERRIMAGNET STRUCTURE USING COCRPT AND COFEB</b> .....	2467
<i>D Watanabe, S Mizukami, F Wu, M Oogane, H Naganuma, Y Ando, T Miyazaki</i>	
<b>MAGNETIC PROPERTIES OF ULTRATHIN <math>Fe_3Si</math> FILMS ON GAAS(001)</b> .....	2471
<i>C Weis, B Krumme, H C Herper, F Stromberg, C Antoniak, A Warland, P Entel, W Keune, H Wende</i>	
<b>DETERMINING THE LOW-COERCIVITY TEMPERATURE COEFFICIENT IN FEPT (FCT)/FEPT (FCC) NANOCOMPOSITE FILMS</b> .....	2475
<i>W Y Zhang, H Shima, F Takano, H Akinaga, S Nimori</i>	
<b>MAGNETIC EXCITATION IN WEAK STRIPE DOMAINS: FERROMAGNETIC RESONANCE AND BRILLOUIN LIGHT SATTING STUDIES</b> .....	2479
<i>Y Talbi, P Djemia, Y Roussigné, J Benyoussef, N Vukadinovic, M Labrune</i>	
<b>EFFECT OF ATOM AND MOLECULE ADHESION ON SURFACE MAGNETISM OF AU NANOPARTICLE</b> .....	2483
<i>Takashi Yasui, Masahiko Nawate</i>	
<b>SEGREGATION IN METASTABLE FE-CU NANOPARTICLES</b> .....	2487
<i>A Yelsukova, Zi-An Li, M Acet, M Spasova, M Farle</i>	
<b>EXCHANGE-BIAS-LIKE EFFECT IN <math>LL_0</math> (111) FEPT BASED PSEUDO SPIN VALVES</b> .....	2491
<i>C L Zha, P Muduli, J Nogue, Johan Akerman</i>	



## SOFT AND HARD MAGNETIC MATERIALS AND THEIR APPLICATIONS

<b>MAGNETIZATION REVERSAL IN THIN GLASS COVERED AMORPHOUS MICROWIRES WITH HELICAL ANISOTROPY</b> .....	2495
<i>A Chizhik, D N Merenkov, A Zhukov, J M Blanco, S L Gnatchenko, J Gonzalez</i>	
<b>NANOCRYSTALLIZATION OF FINEMET ALLOY AFTER INTENSIVE PLASTIC DEFORMATION</b> .....	2499
<i>K Csach, J Miškuf, A Juriková</i>	
<b>FORMATION MECHANISM OF NANO-CRYSTALLINE <math>\beta</math>-<math>\text{Fe}_2\text{O}_3</math> PARTICLES WITH BIXBYITE STRUCTURE AND THEIR MAGNETIC PROPERTIES</b> .....	2503
<i>T Danno, H Asaoka, M Nakanishi, T Fujii, Y Ikeda, Y Kusano, J Takada</i>	
<b>EFFECT OF <math>\text{Cu}^{2+}</math> (<math>S=1/2</math>) SUBSTITUTION ON THE ANTIFERROMAGNETIC ORDERED PHASES <math>\text{CO}_2(\text{OH})\text{XO}_4</math> (<math>X = \text{P Y AS}</math>)</b> .....	2507
<i>Imanol De Pedro, José M Rojo, Jesús Rodríguez Fernández, Teófilo Rojo</i>	
<b>SYNTHESIS OF STRONTIUM HEXAFERRITE NANOPARTICLES PREPARED USING CO-PRECIPIITATION METHOD AND MICROEMULSION PROCESSING</b> .....	2511
<i>A Drmota, A Žnidaršič, A Košak</i>	
<b>PREDICTION OF FLUX LOSS IN A ND-FE-B RING MAGNET CONSIDERING MAGNETIZING PROCESS</b> .....	2515
<i>H Fukunaga, H Koreeda, T Yanai, M Nakano, F Yamashita</i>	
<b>STRUCTURAL AND MAGNETIC PROPERTIES OF THE BALL MILLED <math>\text{Fe}_{56}\text{Pt}_{24}\text{B}_{20}</math> ALLOY</b> .....	2519
<i>A Grabias, M Kopcewicz, D Oleszak, J Latuch, M Kowalczyk, M Pekala</i>	
<b>SPIN TRANSITION INDUCED BY CRYSTAL – LIQUID CRYSTAL TRANSITION</b> .....	2523
<i>Shinya Hayami, Yuuki Yamamoto, Yoshihiro Kojima, Katsuya Inoue</i>	
<b>HIGH FREQUENCY MAGNETO IMPEDANCE IN AMORPHOUS MICROWIRES</b> .....	2527
<i>M Ipatov, V Zhukova, A Zhukov, J Gonzalez, A Zvezdin</i>	
<b>EFFECTS OF MAGNETIC FIELDS ON THE PHOSPHATE CONVERSION COATING OF AZ91D MAGNESIUM ALLOY</b> .....	2532
<i>Hualan Jin, Xiangjie Yang, Wenyi Peng, Hongmin Guo</i>	
<b>STUDY OF THE MAGNETIC FLUX DENSITY DISTRIBUTION OF NICKEL COATED ALUMINUM FOAMS</b> .....	2536
<i>A Jung, H Natter, R Hempelmann, S Diebels, M R Koblischka, U Hartmann, E Lach</i>	
<b>COMPLEX PERMEABILITY SPECTRA OF PERMENDUR COMPOSITE MATERIALS</b> .....	2540
<i>Teruhiro Kasagi, Takanori Tsutaoka, Kenichi Hatakeyama</i>	
<b>TEXTURE ANALYSIS OF MELT-SPUN NI-MN-GA TAPES BY MEANS OF ELECTRON BACKSCATTER DIFFRACTION (EBSD)</b> .....	2544
<i>A Koblischka-Veneva, M R Koblischka, J Schmauch, A Mitra, A K Panda</i>	
<b>EBSD ANALYSIS OF THE MICROTEXTURE OF BA-HEXAFERRITE SAMPLES</b> .....	2548
<i>A Koblischka-Veneva, M R Koblischka, J Schmauch, Y Chen, V G Harris</i>	
<b>EFFECT OF RARE-EARTH OVERLAYER ON THE COERCIVITY IN SPUTTER-DEPOSITED ND-FE-B FILMS</b> .....	2552
<i>K Koike, S Igarashi, K Yamaguchi, T Kusano, T Miyazaki, D Ogawa, T Akiya, Y Adachi, H Kato</i>	
<b>CHARACTERIZATION OF FE/C CATALYSTS SUPPORTED ON <math>\text{Al}_2\text{O}_3</math>, <math>\text{SiO}_2</math> AND <math>\text{TiO}_2</math></b> .....	2556
<i>J A L Lodya, T Seda, A M Strydom, S S Manzini</i>	
<b>MAGNETIC STUDY OF AMORPHIZATION OF BALL-MILLED FECR ALLOYS</b> .....	2560
<i>J M Loureiro, B F O Costa, S Das, V S Amaral, G Le Caër</i>	
<b>ANISOTROPIC MAGNETIC PROPERTIES OF DYSPROSIUM IRON GARNET (DYIG)</b> .....	2564
<i>M Lahoubi, W Younsi, M-L Soltani, B Ouladdiaf</i>	
<b>EFFECT OF CU ADDITION ON COERCIVITY AND INTERFACIAL STATE OF ND-FE-B/ND-RICH THIN FILMS</b> .....	2568
<i>M Matsuura, S Sugimoto, T Fukada, R Goto, N Tezuka</i>	
<b>MAGNETOELASTIC EFFECT IN SOFT AMORPHOUS AND NANOCRYSTALLINE FECUNBSIB THIN FILMS</b> .....	2579
<i>Johan Moulin, Medhi Ammar, Iman Shahosseini, Francisco Alves, Frédéric Mazaleyrat</i>	
<b>ANISOTROPIC ND-FE-B THICK FILM MAGNETS PREPARED ON VARIOUS SUBSTRATES</b> .....	2583
<i>M Nakano, H Takeda, T Yanai, M Itakura, F Yamashita, H Fukunaga</i>	
<b>THE NEGATIVE VOLUME MAGNETOSTRICTION OF <math>\text{GdAl}_2</math> WITH A CUBIC LAVES STRUCTURE</b> .....	2587
<i>Takayuki Oishi, Masashi Ohashi, Haruhiko Suzuki, Isamu Satoh</i>	
<b>TEMPERATURE DEPENDENCE OF THE EPR SPECTRA FOR THE <math>\text{Ni}_{1-x}\text{Co}_x\text{Fe}_2\text{O}_4</math> NANOPARTICLES</b> .....	2591
<i>P Silva, V Sagredo, W Brämer, E Pérez, F Torres</i>	
<b>STRUCTURAL PHASE STABILITY, MAGNETISM AND MICROWAVE PROPERTIES OF <math>\text{CO}_2\text{FeO}_4</math> SPINEL OXIDE</b> .....	2595
<i>V Meriakri, M Parckhomenko, S Von Grätowski, R N Bhowmik, I Panneer Muthuselvam</i>	
<b>MAGNETIC PROPERTIES OF <math>\text{HO}_2\text{Fe}_{17-x}\text{Mn}_x</math> – INFLUENCE OF MN SUBSTITUTION</b> .....	2599
<i>J L Wang, S J Campbell, A J Studer, S J Kennedy, R Zeng</i>	
<b>FORMATION OF <math>\text{SMFe}_5(0001)</math> ORDERED ALLOY THIN FILMS ON <math>\text{Cu}(111)</math> SINGLE-CRYSTAL UNDERLAYERS</b> .....	2603
<i>Osamu Yabuhara, Mitsuru Ohtake, Yuri Nukaga, Fumiyoshi Kirino, Masaaki Futamoto</i>	
<b>PREPARATION OF RING-SHAPED COMPOSITE BONDED MAGNETS WITH CONTINUOUSLY CONTROLLED ANISOTROPY DISTRIBUTION FOR INTERNAL SPACE</b> .....	2607
<i>F Yamashita, O Yamada, S Ohya, O Kobayashi, M Nakano, H Fukunaga</i>	

## NOVEL MATERIALS AND DEVICE APPLICATIONS

<b>FERROMAGNETIC RESONANCE IN NI-MN BASED FERROMAGNETIC HEUSLER ALLOYS</b> .....	2611
<i>S Aksoy, O Posth, M Acet, R Meckenstock, J Lindner, M Farle, E F Wassermann</i>	
<b>MAGNETIC, STRUCTURAL PROPERTIES AND B-SITE ORDER OF TWO EPITAXIAL LA<sub>2</sub>COMNO<sub>6</sub> FILMS WITH PERPENDICULAR OUT-OF-PLANE ORIENTATION</b> .....	2616
<i>A J Barón-González, C Frontera, J L García-Muñoz, J Roqueta, J Santiso</i>	
<b>INVERSE FARADAY EFFECT IN PLASMONIC HETEROSTRUCTURES</b> .....	2620
<i>V I Belotelov, E A Bezus, L L Doskolovich, A N Kalish, A K Zvezdin</i>	
<b>THEORETICAL MODEL OF THE COUPLED MAGNETOSTRUCTURAL PHASE TRANSITIONS IN HEUSLER NI-MN-IN ALLOYS BY MONTE CARLO SIMULATION</b> .....	2624
<i>V Sokolovskiy, V Buchelnikov, S Taskaev, P Entel</i>	
<b>DRASTIC CHANGE OF THE ELECTRICAL RESISTIVITY RELATED TO THE NOVEL MAGNETIC PHASE TRANSITION IN <math>\alpha</math>-SM<sub>2</sub>S<sub>3</sub></b> .....	2628
<i>Shuji Ebisu, Haruki Omote, Shoichi Nagata</i>	
<b>INFLUENCE OF HYDROGENATION ON VOLUME DEPENDENCE OF THE CURIE TEMPERATURE AND ENTROPY CHANGE IN LA(Fe<sub>0.86</sub>SI<sub>0.14</sub>)<sub>13</sub></b> .....	2632
<i>A Fujita, S Fujieda, K Fukamichi</i>	
<b>ABSENCE OF ELEMENT SPECIFIC FERROMAGNETISM IN CO DOPED ZNO INVESTIGATED BY SOFT X-RAY RESONANT REFLECTIVITY</b> .....	2636
<i>E Goering, S Brück, T Tietze, G Jakob, M Gacic, H Adrian</i>	
<b>STUDY ON THE LC MARKER COMPOSED OF LAMINATED AMORPHOUS RIBBON CORE FOR A WIRELESS MAGNETIC MOTION CAPTURE SYSTEM</b> .....	2640
<i>S Hashi, F Kamisaka, S Yabukami, H Kanetaka, K Ishiyama, K I Arai</i>	
<b>MAGNETOCALORIC EFFECT OF GDTX (T = MN, FE, NI, PD, X=AL, IN) AND GDFE<sub>6</sub>AL<sub>6</sub> TERNARY COMPOUNDS</b> .....	2645
<i>M Klimczak, E Talik</i>	
<b>MAGNETIC AND FERROELECTRIC PROPERTIES OF FE DOPED SRTIO<sub>3-<math>\delta</math></sub> FILMS</b> .....	2650
<i>A Sendil Kumar, P Suresh, M Mahesh Kumar, H Srikanth, M L Post, Kathy Sagner, Ralf Moos, S Srinath</i>	
<b>DIRECT MEASUREMENT OF THE MAGNETOCALORIC EFFECT IN GD<sub>5</sub>SI<sub>2</sub>GE<sub>1.9</sub>GA<sub>0.1</sub></b> .....	2654
<i>E Palacios, G F Wang, R Burriel, V Provenzano, R D Shull</i>	
<b>MAGNETOCALORIC AND MAGNETOELASTIC EFFECTS IN (TB<sub>0.45</sub>DY<sub>0.55</sub>)<sub>1-x</sub>ER<sub>x</sub>CO<sub>2</sub> MULTICOMPONENT COMPOUNDS</b> .....	2658
<i>I Tereshina, G Politova, E Tereshina, S Nikitin, G Burkhanov, O Chistyakov, A Karpenkov</i>	
<b>AC SUSCEPTIBILITY MEASUREMENT IN HIGH FREQUENCY REGION UP TO 10 KHZ USING A SQUID MAGNETOMETER MPMS</b> .....	2662
<i>K Tsuruta, M Mito, K Iriguchi, Y Komorida, H Deguchi, S Takagi, T Ohta</i>	

## MAGNETIC RECORDING AND MEMORIES

<b>LOCAL COMPOSITIONAL ANALYSIS OF MAGNETIC CRYSTAL GRAIN AND BOUNDARY IN COCRPT-SIO<sub>2</sub> GRANULAR PERPENDICULAR RECORDING MEDIA</b> .....	2666
<i>Masaaki Futamoto, Takahiro Handa, Yoshio Takahashi</i>	
<b>MAGNETIC ANISOTROPY OF LI<sub>1</sub>-TYPE (CO<sub>1-x</sub>MX)<sub>50</sub>PT<sub>50</sub> (M:NI, FE, CR, MN) AND CO<sub>50</sub>(PT<sub>1-x</sub>PD<sub>x</sub>)<sub>50</sub> ORDERED ALLOY PERPENDICULAR FILMS</b> .....	2670
<i>H Kataoka, H- Sato, T Shimatsu, S Okamoto, O Kitakami, H Aoi</i>	
<b>NUCLEATION SIZE OF HCP-COPT DOT ARRAYS CHARACTERIZED BY TIME DEPENDENCE OF COERCIVITY</b> .....	2674
<i>N Kikuchi, K Mitsuzuka, T Shimatsu, O Kitakami, H Aoi</i>	
<b>MICROMAGNETIC STUDY OF MAGNETIC PRINTING ONTO VARIOUS SLAVE MEDIA</b> .....	2678
<i>Takashi Komine, Takuji Murakoshi, Yasuki Tanaka, Yuichi Sakaguchi, Ryuji Sugita</i>	
<b>REMANENCE COERCIVITY OF DOT ARRAYS OF HCP-COPT PERPENDICULAR FILMS</b> .....	2682
<i>K Mitsuzuka, T Shimatsu, N Kikuchi, S Okamoto, H Aoi, O Kitakami</i>	
<b>INFLUENCE OF MECHANICAL SCRATCH ON THE RECORDED MAGNETIZATION STABILITY OF PERPENDICULAR RECORDING MEDIA</b> .....	2686
<i>Katsumasa Nagano, Syota Sasaki, Masaaki Futamoto</i>	
<b>MAGNETIZATION PROCESS OF HEAT ASSISTED MAGNETIC RECORDING BY MICRO-MAGNETIC SIMULATION</b> .....	2690
<i>Kazuo Shiiki, Hisanori Motojima</i>	
<b>MAGNETIC AND STRUCTURAL PROPERTIES OF LI<sub>1</sub> TYPE COPT-C ORDERED ALLOY PERPENDICULAR FILMS AS A FUNCTION OF C CONTENT</b> .....	2694
<i>T Shimatsu, H Sato, H Kataoka, S Okamoto, O Kitakami, H Aoi</i>	
<b>CONTROL OF GROWTH AND ORDERING PROCESS IN FEPT(001) FILM AT 300°C</b> .....	2698
<i>A C Sun, F T Yuan, Jen-Hwa Hsu</i>	

## MEASURING TECHNIQUES AND INSTRUMENTATION

<b>PARAMAGNETIC TO ORDERED MAGNETIC PHASE TRANSITION OF HE<sup>+</sup> IONS IRRADIATED STAINLESS STEEL STUDIED BY XMCD: A NEW PERSPECTIVE FOR EARLY STAGE DETECTION OF DEFECTS IN SOLIDS</b> .....	2702
<i>P Imperia, Z Zhang, A P J Stampfl</i>	
<b>MAGNETO-OPTICAL PROPERTIES OF BI-SUBSTITUTED YTTRIUM IRON GARNET FILMS BY METAL-ORGANIC DECOMPOSITION METHOD</b> .....	2708
<i>Takayuki Ishibashi, Terumasa Kosaka, Masayuki Naganuma, Tatsuo Nomura</i>	
<b>PREPARATION OF PYROLYTIC MAGNETIC CARBON UNDER MAGNETIC FIELD</b> .....	2712
<i>Kenji Kamishima, Daisuke Miyata, Yuki Sato, Takashi Tokue, Koichi Kakizaki, Nobuyuki Hiratsuka, Yasutaka Imanaka, Tadashi Takamasu</i>	
<b>HF-MFM IMAGING OF STRAY FIELDS FROM PERPENDICULAR WRITE HEADS</b> .....	2716
<i>M R Koblischka, R Pfeifer, A Cazacu, R Lamberton, U Hartmann</i>	
<b>LOCAL MAGNETIC PROPERTIES IN AMORPHOUS MAGNETIC WIRES</b> .....	2720
<i>M Lostun, H Chiriac</i>	
<b>HOT PRESSING OF GE CRYSTALS TOWARD A REFLECTION-PLANE-SELECTIVE NEUTRON MONOCHROMATOR</b> .....	2724
<i>Y Miyake, H Hiraka, K Ohoyama, Y Yamaguchi, K Yamada</i>	
<b>PERFORMANCE OF MAGNETOMETER USING A COMMERCIAL HALL SENSOR</b> .....	2728
<i>Masakazu Mizoo, Yukihiro Kawamura, Takashi Nishioka, Harukazu Kato, Masahiro Matsumura</i>	
<b>MAGNETOSTRICTION MEASUREMENT OF GMR FILMS ON PRACTICAL SUBSTRATES</b> .....	2732
<i>Kazuhiko Okita, Kazushi Ishiyama, Hideo Miura</i>	
<b>POLARIZED NEUTRON RADIOGRAPHY WITH A PERISCOPE</b> .....	2736
<i>Michael Schulz, Andreas Neubauer, Martin Mühlbauer, Elbio Calzada, Burkhard Schillinger, Christian Pfeleiderer, Peter Böni</i>	
<b>TANDEM MAGNETO-OPTICAL KERR EFFECT MAGNETOMETER FOR THE STUDY OF QUADRATIC EFFECTS</b> .....	2740
<i>Simon Trudel, Georg Wolf, Helmut Schultheiß, Jaroslav Hamrle, Burkard Hillebrands</i>	
<b>STABLE MAGNETIZATION OF IRON FILLED CARBON NANOTUBE MFM PROBES IN EXTERNAL MAGNETIC FIELDS</b> .....	2744
<i>Franziska Wolny, Uhlend Weissker, Thomas Mühl, Matthias U Lutz, Christian Müller, Albrecht Leonhardt, Bernd Büchner</i>	
<b>SCHEME FOR BELL STATE MEASUREMENT IN A G-FACTOR ENGINEERED DOUBLE DOT</b> .....	2748
<i>Nobuhiko Yokoshi, Hiroshi Imamura, Hideo Kosaka</i>	

## INTERDISCIPLINARY TOPICS

<b>DETECTION OF A SINGLE SYNTHETIC ANTIFERROMAGNETIC NANOPARTICLE WITH AN AMR NANOSTRUCTURE: COMPARISON BETWEEN SIMULATIONS AND EXPERIMENTS</b> .....	2752
<i>M Donolato, M Gobbi, P Vavassori, M Cantoni, V Methushko, B Ilic, M Zhang, S X Wang, M F Hansen, R Bertacco</i>	
<b>PRODUCTION OF CO-TI FERRITE NANOPARTICLES FOR USE AS AGENTS IN HYPERTHERMIA TREATMENT</b> .....	2758
<i>Daiki Shigeoka, Hikaru Katayanagi, Yuki Moro, Shinji Kimura, Toshiyuki Mashino, Yuko Ichiyonagi</i>	
<b>FUNCTIONAL MAGNETIC NANOPARTICLES FOR USE IN A DRUG DELIVERY SYSTEM</b> .....	2763
<i>Tomoyuki Hiroki, Shu Taira, Hikaru Katayanagi, Yuki Moro, Daiki Shigeoka, Shinji Kimura, Toshiyuki Mashino, Shinji Kimura, Yuko Ichiyonagi</i>	
<b>MAGNETIC POLYMER NANOSPHERES FOR ANTICANCER DRUG TARGETING</b> .....	2768
<i>A Juriková, K Csach, M Koneráková, V Závěšová, M Múcková, N Tomašovicová, G Lancz, P Kopecký, M Timko, J Miškuf</i>	
<b>BASIC STUDY FOR THE CONTROLLING OF THE DISPERSION AND THE AGGLOMERATION OF MAGNETIC PARTICLES</b> .....	2772
<i>H Nakamura, S Hashi, K Ishiyama</i>	
<b>THE NEED FOR STABLE, MONO-DISPERSED, AND BIOFUNCTIONAL MAGNETIC NANOPARTICLES FOR ONE-STEP MAGNETIC IMMUNOASSAYS</b> .....	2776
<i>F Östjören, J F Schneiderman, A P Astalan, A Kalabukhov, C Johansson, D Winkler</i>	
<b>AN EVALUATION OF THE INFLUENCE OF A MAGNETIC FIELD ON A HUMAN SUBJECT WITH THE USE OF BIO-IMPEDANCE</b> .....	2780
<i>S Papezova, V Papez</i>	
<b>DEMODULATION EFFECT IS OBSERVED IN NEURONES BY EXPOSURE TO LOW FREQUENCY MODULATED MICROWAVES</b> .....	2784
<i>R N Pérez-Bruzón, T Figols, M J Azanza, A Del Moral</i>	
<b>SYNTHESIS OF DRUG LOADED MAGNETIC NANOPARTICLES AND THEIR UPTAKE INTO IMMUNE CELLS</b> .....	2788
<i>Eva-Marie Prinz, Ruth Eggers, Hyeck-Hee Lee, Ute Steinfeld, Rolf Hempelmann</i>	
<b>MAGNETIZATION AND SELF-HEATING TEMPERATURE OF NIFE<sub>2</sub>O<sub>4</sub> NANOPARTICLES MEASURED BY APPLYING AC MAGNETIC FIELD</b> .....	2792
<i>A Tomitaka, H Kobayashi, T Yamada, M Jeun, S Bae, Y Takemura</i>	
<b>MOLECULAR DIAGNOSTICS USING MAGNETIC NANOBEADS</b> .....	2799
<i>Teresa Zardán Gómez De La Torre, Mattias Strömberg, Jenny Göransson, Klas Gunnarsson, Mats Nilsson, Peter Svedlindh, Maria Strömme</i>	

**Author Index**