

Session B1 - Basic problems, magn. processes, domain studies, micromagnetics I
Monday, September 7

- B1-01** Computer simulation of pinning effects in multicomponent systems
Carlos Moron, Puerto Ramirez, Fernando J. Maganto, Enrique Tremps, Alfonso Garcia
- B1-02** Constricted hysteresis loops in Fe single crystal
Seiki Takahashi, Satoru Kobayashi
- B1-03** Two-dimensional mapping of spin modes in elliptical nanorings by micro-focused Brillouin light scattering
M. Madami, S. Tacchi, G. Gubbiotti, G. Carlotti, F. Montoncello, G. Capuzzo, L. Giovannini, F. Nizzoli, H. Tanigawa, T. Ono
- B1-04** New mathematical approach using fractional derivatives to take into account excess losses in magnetic materials
Marie-Ange Raulet, Benjamin Ducharne, Daniel Guyomar
- B1-05** Effect of heating rate of annealing on magnetic properties and magnetization process in $\text{Fe}_{80.5}\text{Cu}_{1.5}\text{Si}_4\text{B}_{14}$ nanocrystalline alloy
Motoki Ohta, Yoshihito Yoshizawa, Masaaki Takezawa, Jiro Yamasaki
- B1-06** Stabilization of the Barkhausen noise parameters
Jozef Palà, Jan Bydžovský, Volodymyr Stoyka, František Kováč
- B1-07** A micromagnetic simulation assuming periodic domain structure
Tetsuji Matsuo, Yuya Yamazaki
- B1-08** Domain wall dynamics in thin magnetic wires under the influence of perpendicular magnetic field
K. Richter, R. Varga, G. Infante, G. Badini, M. Vazquez
- B1-09** Irreversible resistivity response of half-metallic ferromagnets
Y. Melikhov, V. N. Krivoruchko, M. A. Marchenko, D. C. Jiles
- B1-10** Generalized form of anhysteretic magnetization function for Jiles-Atherton theory of hysteresis
A. Raghunathan, Y. Melikhov, J. E. Snyder, D. C. Jiles
- B1-11** Application of the boundary series method with edge function to magnetic structures of infinite permeability
Ernst Huijjer

- B1-12** Two ways of analytical modelling hysteresis
Zdzisław Włodarski, Jadwiga Włodarska, Andrzej Brykalski
- B1-13** Size effects at laser cutting and mechanical cutting on the magnetic properties of FeSi steels
E. Gomes, J. Schneider, S. Vervynckt, K. Verbeken, Y. Houbaert
- B1-14** Dynamic neural network model of magnetic hysteresis
Marinel Temneanu, Codrin Donciu
- B1-15** Spontaneous domain wall motion at zero external magnetic field in ferromagnetic nanowire
Dede Djuhana, Hong-Guang Piao, Je-Ho Shim, Sang-Hyuk Lee, Su-Hyeong Jun, Suhk-Kun Oh, Seong-Cho Yu, Dong-Hyun Kim
- B1-16** Magnetic characterisation of industrial high strength steels
P. Fulmek, N. Mehboob, P. Haumer, M. Kriegisch, R. Grössinger
- B1-17** A mesoscopic hysteresis model based on the unconstrained minimization of the Gibbs free energy
Adinda van den Berg, Luc Dupré, Ben Van de Wiele, Guillaume Crevecoeur
- B1-18** Damped oscillatory behaviour of domain wall propagation in sinusoidal ferromagnetic nanowire
H.-G. Piao, J.-H. Shim, D. Djuhana, S.-H. Lee, S.-H. Jun, C.-M. Hur, S.-C. Yu, S.-K. Oh, D.-H. Kim
- B1-19** Preparation and magneto-mechanical behavior of textured polycrystals of NiMnGa
Stefan Roth, Uwe Gaitzsch, Martin Pötschke, Claudia Hürrich, Andrea Böhm, Bernd Rellinghaus, Ludwig Schultz
- B1-20** Windowing effects in magneto-optical measurements of domain wall dynamics
Yanjiun Chen, Stefanos Papanikolaou, James P. Sethna, Stefano Zapperi, Alessandro Magni, Gianfranco Durin
- B1-21** Hysteresis modeling of nanoscale exchange-biased spin valves
Antonio Faba, Giovanni Finocchio, Bruno Azzerboni, Ermanno Cardelli
- B1-22** Short-range order in soft-magnetic iron-silicon alloy. Ab initio calculations
A.R. Kuznetsov, O.I. Gorbatov, Yu.N. Gornostyrev, N.V. Ershov
- B1-23** Frequency dependent magnetic properties of industrial high strength steels
P. Fulmek, P. Haumer, M. Kriegisch, R. Grössinger

- B1-24** Ab initio calculation of electronic structure and NMR in lithium ferrite
Vojtěch Chlan, Pavel Novák, Helena Štěpánková, Karel Kouřil, Richard Řezníček
- B1-25** Magnetic and NMR study of $\text{LaMn}_{1-x}\text{Co}_x\text{O}_3$ perovskites
Vít Procházka, Helena Štěpánková, Bedřich Sedlák, Czesław Kapusta, Richard Řezníček, Vojtěch Chlan, Karel Knížek, Zdeněk Jiráček, Miroslav Maryško
- B1-26** Effect of dipolar interactions for domain wall dynamics in magnetic thin films
Adil Mughal, Lasse Laurson, Stefano Zapperi, Gianfranco Durin
- B1-27** The influence of grain size on hysteresis loss subdivision components
F. J. G. Landgraf, J. R. F. Silveira, D. Rodrigues-Jr, M.F. de Campos
- B1-28** Hysteresis study on soft magnetic nanocrystalline and amorphous materials
M. Fuger, D. Neudecker, R. Grössinger