

# IEEE Magnetics Society Nagoya Chapter Young Researcher Meeting

Date: 10:30-17:40, Feb. 1 (Wed.), 2012

Theme: Magnetism

Place: Venture Hall, Venture Business Laboratory 3F, Nagoya University

## Program

10:30-10:35 Opening remarks, Satoshi Iwata (Nagoya University)

10:35~10:55

Possible half metallic antiferromagnetism through double-exchange interaction

K. Sanbou, K. Sakuma, H. Matushima, T. Miyawaki, K. Ueda, H. Asano (Nagoya Univ.)

10:55~11:15

Observation of magnetization reversal process of bit patterned MnBiCu thin films

R. Kambara, S. Jyo, T. Kato, S. Iwata (Nagoya Univ.)

11:15~11:35

Influence of magnetic field on charge injection process in ME capacitor

K. Imura, S. Yokota, Y. Tsuboi, K. Ichikawa, M. Gomi (Nagoya Inst. of Tech.)

11:35~11:55

Study on optical waveguide circulator with porous alumina thin plate

Y. Kaneko, K. Yayoi\*, H. Takagi, L. P. Boey, A. Baryshev, M. Inoue (Toyohashi Univ. of Tech.,  
\*Ibaraki Nat'l Col. of Tech.)

11:55~13:20 Lunch Break

13:20~13:40

Fabrication of ion irradiation bit patterned media using ordered alloy film

D. Oshima, T. Kato, S. Iwata, S. Tsunashima\* (Nagoya Univ., \*NISRI)

13:40~14:00

Study on high performance collinear magnetic hologram

H. Sakurai, S. Baek, N. Sagara, H. Takagi, P. B. Lim, M. Inoue (Toyohashi Univ. of Tech.)

14:00~14:20

Magnetoresistance effect in TbFeCo wires

D. Bang, H. Awano (Toyota Tech. Inst.)

14:20~14:40 Break

14:40~15:00

Local magnetism of non-equilibrium Co-based Heusler alloy films prepared by atomically controlled alternate deposition

S. Hori, A. Murata, S. Horii, Y. Tokuoka, D. Maezaki, M. A. Tanaka, K. Mibu (Nagoya Inst. of Tech.)

15:00~15:20

TbFeCo nanowire thickness dependence of critical current density for driving magnetic domain wall

T. Hirano, H. Awano (Toyota Tech. Inst.)

15:20~15:40

Fabrication of Fe<sub>2</sub>CrSi/MgAl<sub>2</sub>O<sub>4</sub> heterostructure by reactive magnetron sputtering

N. Fukatani, K. Ueda, H. Asano (Nagoya Univ.)

15:40~16:00

Fundamental investigation on high performance 3D displays using high-density directional image

T. Kouketsu, A. Baryshev, A. Merzlikin, P. B. Lim, H. Horimai, H. Takagi, M. Inoue (Toyohashi Univ. of Tech.)

16:00~16:20 Break

16:20~16:40

Analysis of current driven domain wall behavior in TbFeCo nano-wire

Y. Takahashi, H. Awano (Toyota Tech. Inst.)

16:40~17:00

Crystallization of magnetic garnet thin films with laser annealing and its applications

Y. Suzuki, Y. Eto, T. Goto, H. Takagi, P. B. Lim, M. Inoue (Toyohashi Univ. of Tech.)

17:00~17:20

Study of magnetic wires on polycarbonate substrate

R. Eguchi, H. Awano (Toyota Tech. Inst.)

17:20~17:40

Dependence of magnetization dynamics on the magnetic anisotropy for sputtered Co/Ni multilayers

T. Kato, Y. Matsumoto, S. Okamoto\*, N. Kikuchi\*, O. Kitakami\*, S. Tsunashima\*\*, S. Iwata  
(Nagoya Univ., \*Tohoku Univ., \*\*NISRI)

18:00 Reception