

Publication List

Electronic and magnetic structures in O/Cr(001) surface from angle-resolved photoemission spectroscopy

H. Nakajima, S. Pukird, W. Boonyaratgalin, T. Ishii, T. Saitoh, and A. Kakizaki
J. Phys. Soc. Jpn., **79** (10), 104710 (1-5) (2010).

Dynamics of magnetostatically coupled vortices observed by time-resolved photoemission electron microscopy

K. Arai, T. Okuda, K. Fukumoto, M. Kotsugi, T. Ohkouchi, K. Kodama, Y. Senba, H. Ohashi, T. Kimura, Y. Haruyama, T. Nakamura, T. Matsushita, H. Osawa, T. Muro, S. Matsui, A. Kakizaki, Y. Otani, and T. Kinoshita

Jpn. J. Appl. Phys. **50** (5), (2011) *in press*.

Electronic structures related to the magnetic anisotropy in Ni/Cu(001)

R. Supruangnet, H. Nakajima, R. Chai-ngam, P. Songsiriritthigul, and A. Kakizaki
J. Phys. Soc. Jpn. **80** (6), 064706 (1-5) (2011).

Valence band structure and magnetic properties of Co-doped Fe₃O₄(100) films

F. Y. Ran, Y. Tsunemaru, T. Hasegawa, Y. Takeichi, A. Harasawa, K. Yaji, S. Kim, and A. Kakizaki
J. Appl. Phys., *in press*.

Intermolecular Band Dispersion in a Self-Assembled Phthalocyanine Derivative Film: The Case of Tetrakis(thiadiazole)porhyrazine

Y. Tanaka, K. Takahashi, T. Kuzumaki, Y. Yamamoto, K. Hotta, A. Harasawa, Y. Miyoshi, H. Yoshikawa, Y. Ouchi, N. Ueno, K. Seki, K. Awaga and K. Sakamoto
Phys. Rev. B **82**, 73408 (2010).

Topological Metal at the Surface of an Ultrathin Bi_{1-x}Sb_x Alloy Film

T. Hirahara, Y. Sakamoto, Y. Saisyu, H. Miyazaki, S. Kimura, T. Okuda, I. Matsuda, S. Murakami and S. Hasegawa

Phys. Rev. B **81**, 165422 (2010).

Strain Induced Modification of Quasi-Two-Dimensional Electron Gas State on $\sqrt{3} \times \sqrt{3}$ -Ag Structure

I. Mochizuki, R. Negishi and Y. Shigeta

J. Appl. Phys. **107**, 84317 (2010).

Electronic structure and magnetism of the diluted magnetic semiconductor Fe-doped ZnO nanoparticles

T. Kataoka, M. Kobayashi, Y. Sakamoto, G.S. Song, A. Fujimori, F.-H. Chang, H.-J. Lin, D. J. Huang, C. T. Chen, T. Ohkochi, Y. Takeda, T. Okane, Y. Saitoh, H. Yamagami, A. Tanaka, S. K. Mandal, T. K. Nath, D. Karmakar, and I. Dasgupta

J. Appl. Phys. **107**, 33718 (2010).

Direct Spectroscopic Evidence of Spin-Dependent Hybridization between Rashba-Split Surface States and Quantum-Well States

K. He, Y. Takeichi, M. Ogawa, T. Okuda, P. Moras, D. Topwal, A. Harasawa, T. Hirahara, C. Carbone, A. Kakizaki and I. Matsuda

Phys. Rev. Lett. **104**, 156805 (2010).

Large Out-of-Plane Spin Polarization in a Spin-Splitting One-Dimensional Metallic Surface State on Si(557)-Au

T. Okuda, K. Miyamaoto, Y. Takeichi, H. Miyahara, M. Ogawa, A. Harasawa, A. Kimura, I. Matsuda, A. Kakizaki, T. Shishidou and T. Oguchi

Phys. Rev. B **82**, 161410 (2010).

Anomalous Transport in an *n*-Type Topological Insulator Ultrathin Bi₂Se₃ Film

T.Hirahara, Y.Sakamoto, Y.Takeichi, H.Miyazaki, S.Kimura, I.Matsuda, A.Kakizaki and S.Hasegawa

Phys. Rev. B **82**, 155309 (2010).

Spin-Polarized Surface Bands of a Three-Dimensional Topological Insulator Studied by High-Resolution Spin- and Angle-Resolved Photoemission Spectroscopy

A.Nishide, Y. Takeichi, T. Okuda, A. A. Taskin, T. Hirahara, K. Nakatsuji, F. Komori, A. Kakizaki, Y. Ando and I. Matsuda

New J. Physics **12**, 65011 (2010).

Spin-Split Quantum-Well States Induced by Hybridization with Rashba-Split Surface States

Y. Takeichi, K. He, T. Okuda, T. Hirahara, A. Kakizaki and I. Matsuda

J. Surf. Sci. Soc. Jpn. **31**, 493 (2010).

Electronic Structure of Sr-Doped LaScO₃ Single Crystal Annealed under Different Atmospheres

Y. Nagao, J. Liu, F.Iguchi, T. Higuchi, N. Sata and H. Yugami

Jpn. J. Appl. Phys. **49**, 10208 (2010).

Direct mapping of the spin-filtered surface bands of a three-dimensional quantum spin Hall insulator

A.Nishide, A. A. Taskin, Y. Takeichi, T. Okuda, A. Kakizaki, T. Hirahara, K. Nakatsuji, F. Komori, Y. Ando, and I. Matsuda

Phys. Rev. B **81**, 041309-1, 041309-4 (2010).

Electron compound nature in a surface atomic layer of two-dimensional hexagonal lattice

I.Matsuda, K. Kubo, T. Hirahara, S. Yamazaki, W. H. Choi, H. W. Yeom, H. Narita, Y. Fukaya, M. Hashimoto, A. Kawasuso, S. Hasegawa, and K. Kobayashi

Phys. Rev. B **82**, 165330-1, 165330-6 (2010).

Phase transition temperatures determined by different experimental methods: Si(111)4x1-In surface with defects

T. Shibasaki, N. Nagamura, T. Hirahara, .H. Okino, S. Yamazaki, W. Lee, H. Shim, R. Hobara, I. Matsuda, G. . S. Lee, and S. Hasegawa

Phys. Rev. B **81**, 035314 (2010).

A topological metal at the surface of an ultrathin Bi1-xSbx alloy film

T .Hirahara, Y. Sakamoto, Y. Saisyu, H. Miyazaki, S. Kimura, T. Okuda, I. Matsuda, S. Murakami, and S. Hasegawa

Phys. Rev. B **81**, 165422 (2010).

Generation and applications of ultra-short electron beams in energy-recovery linacs

R. Hajima, M. Shimada and N. Nakamura

Nuclear Instruments and Methods in Physics Research A **637** (2010), S37-S42.

Beam injection with a pulsed sextupole magnet in an electron storage ring

H. Takaki, N. Nakamura, Y. Kobayashi, K. Harada, T. Miyajima, A. Ueda, S. Nagahashi, M. Shimada, T. Obina, T. Honda

Physical Review Special Topics – Accelerators and Beams **13** (2010) 020705.

Effects of Longitudinal and Transverse Resistive-Wall Wakefields on ERLs

N. Nakamura

Proceedings of ERL09, Ithaca, New York, 2010, pp.85-89.

Application of the Eigenvector Method with Constraints to Orbit Correction for ERLs

N. Nakamura and K. Harada

Proceedings of the 1st International Particle Accelerator Conference(IPAC10), Kyoto, 2010, pp.2320-2322.

Effects of Alignment Error of Main Superconducting Cavities on ERLs and their Correction

N. Nakamura, K. Harada, M. Shimada, Y. Kobayashi, S. Sakanaka and R. Hajima

Proceedings of the 1st International Particle Accelerator Conference(IPAC10), Kyoto, 2010, pp.2314-2316.

Tolerance Study on RF Amplitude and Phase of Main Superconducting Cavities and Injection Timing for the Compact ERL

N. Nakamura, M. Shimada, T. Miyajima, Y. Kobayashi, S. Sakanaka and R. Hajima

Proceedings of the 1st International Particle Accelerator Conference(IPAC10), Kyoto, 2010, pp.2317-2319.

Development of an Yb-Doped Fiber Laser System for an ERL Photocathode Gun

I. Ito, T. Kawasaki, N. Nakamura, D. Yoshitomi, Y. Kobayashi and K. Torizuka

Proceedings of the 1st International Particle Accelerator Conference(IPAC10), Kyoto, 2010, pp.2141-2143.

Power Coupler Development for ERL Main LINAC in Japan

H. Sakai, T. Furuya, S. Sakanaka, T. Takahashi, K. Umemori, A. Ishii, N. Nakamura, K. Shinoe and M. Sawamura

Proceedings of the 1st International Particle Accelerator Conference(IPAC10), Kyoto, 2010, pp.2953-2955.

Recent Progress in the Energy Recovery Linac Project in Japan

S. Sakanaka, M. Akemoto, T. Aoto, D. Arakawa, S. Asaoka, A. Enomoto, S. Fukuda, K. Furukawa, T. Furuya, K. Haga, K. Hara, K. Harada, T. Honda, Y. Honda, H. Honma, T. Honma, K. Hosoyama, M. Isawa, E. Kako, T. Kasuga, H. Katagiri, H. Kawata, Y. Kobayashi, Y. Kojima, T. Matsumoto, H. Matsushita, S. Michizono, T. Mitsuhashi, T. Miura, T. Miyajima, H. Miyauchi, S. Nagahashi, H. Nakai, H. Nakajima, E. Nakamura, K. Nakanishi, K. Nakao, T. Nogami, S. Noguchi, S. Nozawa, T. Obina, S. Ohsawa, T. Ozaki, C. O. Pak, H. Sakai, H. Sasaki, Y. Sato, K. Satoh, M. Satoh, T. Shidara, M. Shimada, T. Shioya, T. Shishido, T. Suwada, M. Tadano, T. Takahashi, R. Takai, T. Takenaka, Y. Tanimoto, M. Tobiyama, K. Tsuchiya, T. Uchiyama, A. Ueda, K. Umemori, K. Watanabe, M. Yamamoto, S. Yamamoto, Y. Yamamoto, Y. Yano, M. Yoshida, R. Hajima, R. Nagai, N. Nishimori, M. Sawamura, N. Nakamura, I. Ito, H. Kudoh, T. Shibuya, K. Shinoe, H. Takaki, M. Katoh, M. Adachi, H. Zen, M. Kuriki, H. Iijima, S. Matsuba, M. Kuwahara, T. Nakanishi, S. Okumi, T. Muto, H. Kurisu, K. Torizuka and D. Yoshitomi

Proceedings of the 1st International Particle Accelerator Conference(IPAC10), Kyoto, 2010, pp.2338-2340.

Development of Input Power Coupler for ERL Main Linac in Japan

H. Sakai, T. Furuya, S. Sakanaka, T. Takahashi, K. Umemori, A. Ishii, N. Nakamura, K. Shinoe and M. Sawamura

Proceedings of SRF2009, Berlin, 2010, pp.684-688.

Orbit Correction Using the Eigenvector Method with Constraints for ERLs

N. Nakamura and K. Harada

Proceedings of the 7th Annual Meeting of Particle Accelerator Society of Japan, Himeji, 2010, pp.430-432.

Effects of Alignment Error of Main Superconducting Cavities on the Compact ERL and their Compensation

N. Nakamura, K. Harada, M. Shimada, Y. Kobayashi, S. Sakanaka, and R. Hajima

Proceedings of the 7th Annual Meeting of Particle Accelerator Society of Japan, Himeji, pp.770-772.

Lattice Design of the Compact ERL for First Commissioning

K. Harada, M. Shimada, A. Ueda, Y. Kobayashi, T. Miyajima, R. Hajima, and N. Nakamura

Proceedings of the 7th Annual Meeting of Particle Accelerator Society of Japan, Himeji, 2010, pp.766-768.

Status of the ERL Project in Japan

S. Sakanaka, H. Kawata, Y. Kobayashi, R. Hajima, and N. Nakamura

Proceedings of the 7th Annual Meeting of Particle Accelerator Society of Japan, Himeji, 2010, pp.30-32.

Development of an Yb-doped Fiber Laser System for an ERL Photocathode Gun

I. Ito, N. Nakamura, D. Yoshitomi, K. Torizuka, and Y. Honda

Proceedings of the 7th Annual Meeting of Particle Accelerator Society of Japan, Himeji, 2010, pp.422-424.

Development of 20kW input power coupler for 1.3GH ERL main linac –High power test of the renewed ceramic window–

K. Shinoe, H. Sakai, K. Umemori, M. Sawamura, N. Nakamura, and T. Furuya

Proceedings of the 7th Annual Meeting of Particle Accelerator Society of Japan, Himeji, 2010, pp.511-513.

Beam Injection Study Using a New Pulsed Power Supply for the Pulsed Sextupole Magnet at the PF Ring

H.Takaki, K. Harada, T. Honda, Y. Kobayashi, T. Miyajima, S. Nagahashi, N. Nakamura, T. Obina, R. Takai, and A. Ueda

Proceedings of the 7th Annual Meeting of Particle Accelerator Society of Japan, Himeji, 2010, pp.773-775.

Performance Tests of a Fast Electromagnetic Phase Shifter for a Polarization-Controlled Undulator

I. Ito, N. Nakamura, K. Shinoe, T. Shibuya, H. Kudo, H. Takaki, T. Tanaka, H. Kitamura, and T. Bizen

Proceedings of the 7th Annual Meeting of Particle Accelerator Society of Japan, Himeji, 2010, pp.956-958.