

8-th Joint-Symposium of
Synchrotron Radiation Surface Science Research Division
and Microscopic · Nano Material Science Group

November 16, 2012 (Fri.)

【 Opening 】 13:30-13:35 (16th Building 3F Conference Room/16 棟 3 階大会議室)

【 Session 1 】 13:35-15:40 Synchrotron Microscopy (16th Building 3F Conference Room/16 棟 3 階大会議室)

	Title	Name & Affiliation	Page
13:35-14:20	(Plenary) Soft x-ray scanning x-ray microscopy: current capabilities and future trends	Adam P. Hitchcock (McMaster University)	1
14:20-15:00	Novel development of very high brightness and highly spin-polarized electron gun with compact 3D spin manipulator 多極子ウイーンフィルタを用いた新しい小型超高輝度・高スピン偏極電子銃の開発	Takanori Koshikawa (Osaka Electro-Communication University)	2

Coffee Break 15:00-15:15

15:15-15:35	Simulations on SPLEEM observation of magnetic domain patterns in Co/Ni multilayers SPLEEMにより得られた Co/Ni 多層膜における積層過程の磁区パターン形成シミュレーション	Kazue Kudo (Ochanomizu University)	4
15:35-15:55	Capability of Insulator Study by Photoemission Electron Microscopy (PEEM) at BL17SU, SPring-8 絶縁性試料の光電子顕微鏡 (PEEM) 観測	Takuo Ohkochi (JASRI/SPring-8)	6
15:55-16:15	Tunable Many-Body Effects on Molecular Orbitals in Graphene Device	Hirokazu Fukidome (Tohoku University)	8

【 Poster Session 】 16:15-17:45 (16th Building 3F Conference Room/16 棟 3 階大会議室)

	Title	Name & Affiliation	Page
P1	Magnetic domain observation of mono-atomically deposited (Fe/Ni) _x film on Cu(001) using photoelectron emission microscopy (PEEM)	Masato Kotsugi (JASRI/SPring-8)	9
P2	Development of high-resolution three-dimensional spin-resolved photoelectron spectroscopy 高分解能三次元スピン分解光電子分光装置の開発と現状	Taichi Okuda (Hiroshima University)	10
P3	Properties of N-doped TiO ₂ films prepared by pulsed laser deposition and sol-gel method	Daigo Kusano (Sophia University)	11
P4	Polarization Dependent ARPES Measurement of the Valence Band Structure of Anatase TiO ₂	Masato Emori (Sophia University)	12

	Title	Name & Affiliation	Page
P5	Time-resolved observation of gyrating magnetic vortex core by means of XMCD-PEEM XMCD-PEEM を利用した磁気渦の巡回軌道観察	Minori Goto (Keio University)	13
P6	Ni ₂ P(10-10)表面電子状態における P 偏析の効果	Ryoichi Arima (Rikkyo University)	14
P7	Controlling the Electronic Structure of ZnO Surfaces by Adsorption of Dye Molecule 色素分子吸着による酸化亜鉛表面の電子構造制御	Masahiro Suzuki (Hirosaki University)	15
P8	Preparation of C-doped TiO ₂ thin film CドーブTiO ₂ 薄膜の作製	Shouhei Mano (Sophia University)	16
P9	In-situ electrochemical X-ray absorption fine structure study of charge transfer to manganese-oxide on the photoelectrode surface In-situ 電気化学 X 線吸収分光法による光電極表面のマンガン酸化物助触媒への電荷移動の観察	Takumi Yomogida (Keio University)	17
P10	Magnetic domain observation of FeCo thin film using soft x-ray photoelectron emission microscope 軟 X 線光電子顕微鏡による FeCo 薄膜の磁区観察	Takumi Ohtsuki (JASRI/SPring-8)	18
P11	In-Situ Observation of CO Adsorption and NO Adsorption on Pd(100) Using Ambient-Pressure X-Ray Photoelectron Spectroscopy (AP-XPS) 準大気圧 X 線光電子分光法を用いた Pd(100)単結晶基板上的 CO 分子及び NO 分子の吸着の観測	Ryo Toyoshima (Keio University)	20
P12	Study on N doped rutile TiO ₂ (110) using Ambient-Pressure X-ray Photoelectron Spectroscopy and Near Edge X-ray Absorption Fine Structure 準大気圧X線光電子分光およびX線吸収端近傍微細構造を用いた窒素ドーブ rutile TiO ₂ (110)の研究	Yuji Monya (Keio University)	21
P13	Atomic-Orbital Analysis of ZrB ₂ Valence Band by Linearly-Polarized Synchrotron Radiation Two-Dimensional Photoelectron Spectroscopy 直線偏光二次元光電子分光法によるZrB ₂ 価電子帯の原子軌道解析	Rie Horie (Nara Institute of Science and Technology)	22
P14	Nuclear resonant scattering from physisorbed ⁸³ Kr mono-layer 放射光核共鳴散乱による Kr 物理吸着層の研究	Akihiko Ikeda (University of Tokyo)	23
P15	XAS/XMCD measurements on vanadyl phthalocyanine thin films on Si(111) Si(111)基板上バナジルフタロシアン薄層の XAS/XMCD 測定	Keitarou Eguchi (The Graduate University for Advanced Studies)	24

【 get-together party 】 18:00-19:30 (14th Building 7F Forum/14 棟 7 階フォーラム)

November 17, 2012 (Sat.)

【 Session 2 】 9:45-10:20 Atomic-resolution Holography (16th Building 3F Conference Room/16 棟 3 階大会議室)

	Title	Name & Affiliation	Page
9:45-10:05	3D imaging of atomic arrangement by inverse photoelectron holography 逆光電子ホログラフィーによる 3D 原子イメージング	Kouichi Hayashi (Tohoku University)	25
10:05-10:25	X-ray fluorescence holography: Applications to materials science 蛍光 X 線ホログラフィーの物質科学への応用	Shinya Hosokawa (Kumamoto University)	26
10:25-10:45	Atomic-layer-resolved imaging of epitaxially grown ultra thin films with X-ray CTR scattering X線 CTR 散乱によるエピタキシャル成長超薄膜の原子層分解イメージング	Toshio Takahashi (University of Tokyo)	27

Coffee Break 10:45-11:00

【 Session 3 】 11:00-12:00 Real Space Observation (16th Building 3F Conference Room/16 棟 3 階大会議室)

	Title	Name & Affiliation	Page
11:00-11:20	Direct Observation of an Organic Photocatalyst 'in action' by Pump-Probe Single Crystal X-ray Structure Analysis ポンプ-プローブ単結晶 X 線構造解析による有機光触媒が“働く瞬間”の直接観察	Manabu Hoshino (Tokyo Tech. and JST-CREST)	28
11:20-11:40	Direct observation of giant coercivities in Fe/W(110) by MXCD and magnetic domain evolutions in the H ₂ adsorption process on Ni/Cu(001) by UV MCD PEEM Fe/W(110)における XMCD による巨大保持力観測と Ni/Cu(001)の水素吸着過程における UV MCD PEEM による磁区変化観測	Toshihiko Yokoyama (Institute for Molecular Science)	29
11:40-12:00	Development of Scanning Type Microscope for Hard X-ray Photoemission Spectroscopy at BL47XU in SPring-8 硬 X 線光電子における走査顕微分光開発 - BL47XU/SPring-8	Eiji Ikenaga (JASRI/SPring-8)	31

【Lunch】 12:00-13:00

【 Session 4 】 13:00-13:40 Electronic Structure (16th Building 3F Conference Room/16 棟 3 階大会議室)

	Title	Name & Affiliation	Page
13:00-13:20	Study of Surface PhotoVoltage effect on Si(111) with time-resolved photoemission spectroscopy system 時間分解光電子分光によるシリコン表面の表面光起電力の研究	Manami Ogawa (University of Tokyo)	32
13:20-13:40	Atomic structure and two-dimensional electronic states of Ge(111) $\sqrt{3} \times \sqrt{3}$ -Au surface Ge(111) $\sqrt{3} \times \sqrt{3}$ -Au 表面の構造と 2 次元電子状態	Kan Nakatsuji (Tokyo Institute of Technology)	33

【 Award Ceremony and Closing 】 13:40-14:00 (16th Building 3F Conference Room/16 棟 3 階大会議室)

【Meeting of Microscopic · Nano Material Science Group】 14:10-15:00

(16th Building 3F Conference Room/16 棟 3 階大会議室)