

Agenda HAXPES 2011

Tuesday, Sep. 13

17:00 - 20:00	Registration (canteen annex building)
18:00 - 20:30	Get together (canteen annex building)

Wednesday, Sep. 14

08:30 - 09:00	Registration (lobby auditorium)
09:00 - 09:15	Welcome E. Weckert
09:15 - 10:00	Introduction: Research with photons at DESY W. Drube
10:00 - 10:45	Hard X-ray photoemission: a brief status report, some recent applications, and some future directions C.S. Fadley (invited)
10:45 - 11:15	Coffee break
Session 1 Theory and New Directions	
Chair: C.M. Schneider	
11:15 - 11:40	One step model description of HAXPES: correlation, matrix elements and temperature effects J. Minar (invited)
11:40 - 12:05	Band gap states and magnetism studied by photoelectron diffraction and HAXPES P. Krüger , A. X. Gray, C. S. Fadley (invited)
12:05 - 12:30	Hard X-ray photoelectron spectroscopy using synchrotron radiation and free electron laser Y. Takata , A. Chainani (invited)
12:30 - 12:55	Hard X-ray photoelectron spectroscopy with variable photon polarisation: linear and circular dichroism G. H. Fecher (invited)
12:55 - 13:10	Quantitative interpretation of (HAX)PES using SESSA (simulation of electron spectra for surface analysis) W.S.M. Werner , W. Smekal, F. Salvat-Pujol, Th. Hisch, C.J. Powell
13:10 - 14:20	Lunch (and opt. poster setup)
Session 2 Correlated Materials & Oxide Heterostructures I	
Chair: S. Suga	
14:20 - 14:45	The electronic structure of a-site ordered perovskite $ACu_3Ru_2O_{12}$ ($A=Ca, Na, La$) by hard X-ray photoemission spectroscopy M. Taguchi (invited)
14:45 - 15:10	Interface-sensitive photoelectron spectroscopy on oxide heterostructures M. Sing , G. Berner, A. Müller, F. Pfaff, M. Paul, S. Glawion, A. Ruff, M. Kamp, S. Thiel, C. Richter, J. Mannhart, S.A. Pauli, C.W. Schneider, P.R. Willmott, H. Boschker, G. Koster, G. Rijnders, D.H.A. Blank, A. Hloskovskyy, F. Schäfers, M. Gorgoi, S. Thiess, W. Drube, R. Claessen (invited)
15:10 - 15:25	Mott Insulating State of Ultrathin Epitaxial $LaNiO_3$ Thin Films Detected by Hard X-ray Photoemission A. Gray , A. Janotti, J. Son, J. M. LeBeau, S. Ueda, Y. Yamashita, K. Kobayashi, A.M. Kaiser, R. Sutarto, H. Wadati, G. A. Sawatzky, C.G. Van de Walle, S. Stemmer, C.S. Fadley
15:25 - 15:40	Coherent Metallic Screening in Strongly Correlated Oxides: Experiment and Theory S. Ueda , H. Takami, T. Kanki, K. Kobayashi, H. Tanaka
15:40 - 16:10	Coffee break
Session 3 Functional Interfaces	
Chair: P. Lysaght	
16:10 - 16:35	HAXPES to investigate advanced devices for microelectronic applications E. Martinez , B. Detlefs, P. Calka, R. Boujamaa, C. Guedj, M. Gros-Jean, V. Jousseaume, F. Bertin, J. Roy, J. Zegenhagen, O. Renault (invited)
16:35 - 16:50	Bias application HX-PES study of metal/oxide interface: oxide based RERAM application T. Nagata , Y. Yamashita, H. Yoshikawa, M. Haemori, K. Kobayashi, T. Chikyow
16:50 - 17:05	Electronic and electrical properties of functional interfaces studied by hard X-ray photoemission A. Zenkevich , Y. Lebedinskii, Y. Matveyev, S. Thiess, W. Drube
17:05 - 17:20	Electronic structure of EuO magnetic oxide "spin filter" contacts on silicon M. Müller , C. Caspers, A.X. Gray, A.M. Kaiser, A. Gloskovskii, C.S. Fadley, W. Drube, C.M. Schneider
17:20 - 18:00	walk to FLASH hall & poster setup
18:00 - 21:00	Poster Session food & drinks (FLASH hall)
~21:00	opt. transfer to hotels

Thursday Sep. 15

Session 4		Energy Research
Chair: J. Zegenhagen		
08:30 - 08:55	Activation of erbium films for hydrogen storage M. Brumbach , J. Ohlhausen, K. Zavadil, C. Snow, J. Woicik (invited)	
08:55 - 09:20	HAXPES investigation of nanostructured PEM fuel cell catalysts V. Matolin , I. Matolinova, H. Yoshikawa, K. Kobayashi, B. Detlefs (invited)	
09:20 - 09:45	Probing the buried Si/ZnO thin-film solar cell interface by HAXPES M. Bär (invited)	
09:45 - 10:10	Understanding molecular interfaces used for energy conversion H. Rensmo (invited)	
10:10 - 10:25	High energy photoemission spectroscopy as tool for thin film solar cell characterisation I. Lauermann , H. Mönig, N. Allsop, P. Pistor, A. Grimm, B. Johnson, R. Caballero, C.A. Kaufmann, M. Gorgoi, F. Schäfers, W. Braun, M. Lux-Steiner, C.-H. Fischer	
10:25 - 11:00	Coffee break	
Session 5		Correlated Materials & Oxide Heterostructures II
Chair: R. Claessen		
11:00 - 11:25	Core level spectroscopy of thin film oxide heterointerfaces and bilayer CMR manganites M.S. Golden , E. Slooten, E. van Heumen, F. Massee, Y.K. Huang, D. Prabhakaran, A.T. Boothroyd, S. de Jong, H. Dürr, M. Gorgoi, Z. Zhong, H. Molegraaf, M. Huijben, G. Rijnders, G.-J. Koster, A. Brinkman, D. Blank, P. Kelly, H. Hilgenkamp (invited)	
11:25 - 11:50	PLEASE NOTE: this contribution has been canceled! HAXPES studies of phase separations in perovskite Mn–oxide superlattices H. Wadati , E. Sakai, M. Tamamitsu, K. Horiba, H. Kumigashira, M. Oshima, T. Sugiyama, E. Ikenaga, M. Nakamura, M. Kawasaki, Y. Tokura (invited)	
11:50 - 12:15	Many-body effects in strongly correlated materials: coupling DFT calculations of K edge absorption to experimental 1s photoemission J.-P. Rueff , M. Calandra, D. Céolin, A. Shukla and D. Chandresris (invited)	
12:15 - 12:30	Valence band analysis of LaAlO₃/SrTiO₃ oxide heterostructures using hard X-ray photoelectron spectroscopy G. Berner , F. Pfaff, A. Müller, S. Paetel, C. Richter, J. Mannhart, A. Hloskovskyy, W. Drube, M. Sing and R. Claessen	
12:30 - 12:45	Electronic structure of Pt based topological Heusler compounds with C1b structure explored by hard X-ray photoelectron spectroscopy S. Ouardi , G. H. Fecher, C. Shekhar, X. Kozina, G. Stryganyuk, C. Felser, E. Ikenaga, S. Ueda, and K. Kobayashi	
12:45 - 13:00	Group photo	
13:00 - 14:00	Lunch	
Session 6		Atoms & Molecules
Chair: S. Svensson		
14:00 - 14:25	X-ray photoionization of free and confined atoms S.T. Manson (invited)	
14:25 - 14:50	Complex decay patterns in Ar following K-edge photoexcitation or photoionization disentangled by ion recoil experiments R. Guillemin, C. Bomme, T. Marin, L. Journel, T. Marchenko, R. K. Kushawaha, M.N. Piancastelli, M. Simon (invited)	
14:50 - 15:15	Resonant inelastic X-ray scattering on atoms and simple molecules in the tender X-ray region M. Kavčič (invited)	
15:15 - 15:30	Photoelectron time-of-flight spectroscopy in a hard X-ray regime M. Ilchen , M. Braune, J. Buck, S. Deinert, L. Glaser, F. Krasnqi, D. Rolles, F. Scholz, J. Seltmann, P. Walter, J. Viehaus	
15:30 - 16:00	Coffee break	
Session 7		HAXPES & Diffraction Phenomena
Chair: W. Eberhardt		
16:00 - 16:25	Graphene on Ir(111) studied by X-ray standing waves C. Busse (invited)	
16:25 - 16:40	XSW imaging of thin lanthanum aluminate films on strontium titanate C. Schlüter , T-L. Lee, C. Aruta, J. Zegenhagen	
16:40 - 16:55	Site-specific electron diffraction resolved via nuclear recoil A. Winkelmann , M. Vos	
17:00 - 18:30	transfer to hotels & Hamburg harbor	
19:00 - 22:00	Banquet on the river	
22:00 -	transfer to hotels & guest houses	

Friday Sep. 16

Session 8 Facilities & New Applications	
Chair: G. Panaccione	
08:40 - 09:05	Probing orbital symmetry in the valence bands of solids by polarization-dependent hard X-ray photoemission A. Sekiyama , A. Higashiya, S. Imada, S. Suga, M. Y. Kimura, Y. Tomida, H. Fujiwara, K. Tamasaku, M. Yabashi, T. Ishikawa (invited)
09:05 - 09:30	Recent development of HAXPES instrumentations at BL47XU/SPring-8 E. Ikenaga , M. Kobata, H. Matsuda, T. Sugiyama, H. Daimon, K. Kobayashi (invited)
09:30 - 09:45	X-ray spectroscopy at NIST NSLS beamlines: recent upgrades, scientific results, and future plans J.C. Woicik
09:45 - 10:00	Electronic structure of high temperature phase of strongly correlated oxides and of interface between oxide insulators Ku-Ding Tsuei , J. Weinen, S. Agrestini, M. Rotter, T. Willers, C. Schüßler-Langeheine, L. H. Tjeng, Y. F. Liao, Y.-Y. Chu, W.-C. Liu, D.-J. Huang
10:00 - 10:15	HAXPEEM - spectroscopic imaging with hard X-rays C. Wiemann , M.C. Patt, A. Gloskovskii, S. Thiess, W. Drube, M. Merkel, M. Escher, C.M. Schneider
10:15 - 10:30	Magnetometry of buried layers by means of hard X-ray photoelectron spectroscopy A. Gloskovskii , G. Stryganyuk, G.H. Fecher, C. Felser, S. Thiess, H. Schulz-Ritter, W. Drube, M. Yamamoto
10:30 - 11:00	Coffee break
Session 9 Techniques & Instrumentation	
Chair: T.-L. Lee	
11:00 - 11:25	Development of laboratory HXPS system and its applications K. Kobayashi , M. Kobata, H. Iwai, H. Matsuda, H. Daimon, H. Yamazui, H. Takahashi, M. Suzuki (invited)
11:25 - 11:40	Development of ambient pressure hard X-ray photoelectron spectroscopy M. Kobata , T. Masuda, H. Yoshikawa, T. Miura, T. Kawasaki, K. Uosaki, and K. Kobayashi
11:40 - 11:55	FOCUS GmbH: all about electrons... M. Merkel (FOCUS GmbH)
11:55 - 12:10	HAXPES analyser MBS A1HE and high voltage electronics 2011 P. Baltzer , M. Matsuki (MB Scientific AB)
12:10 - 12:25	Angle-resolved and high-pressure hard X-ray photoelectron spectroscopy instrument development R. Moberg (VG Scientia AB)
12:25 - 12:40	The PHOIBOS analyzer series: electron spectrometers for hard X-ray photoemission spectroscopy S. Mähl, O. Schaff, Th.U. Kampen (SPECS GmbH)
12:40 - 13:50	Lunch
Session 10 Oxides & Materials Science	
Chair: D. Chandresris	
13:50 - 14:15	Probing s electron states in metal oxides with hard X-ray photoemission D.J. Payne, K.H.L Zhang, G. Panaccione, R.G. Egdell (invited)
14:15 - 14:40	HAXPES studies of oxides and electronic interfaces at NIST beamline X24A A. Rumaiz (invited) PLEASE NOTE: the talk will be given by J. Woicik
14:40 - 14:55	HAXPES of novel charge transfer compounds K. Medjanik , A. Gloskovskii, D. Chercka, M. Baumgarten, K. Müllen , G. Schönhense
14:55 - 15:10	Alloying and interface properties of Fe/V multilayers S. Granroth , R. Knut, M. Gorgoi, S. Svensson, O. Karis
15:10 - 15:25	Direct observation of Al doping induced electronic states in the valence band of ZnO films M. Gabás, P. Torelli, N.T. Barrett, M. Sacchi , F. Bruneval, Y. Cui, L. Simonelli P. Díaz-Carrasco, J.R. Ramos Barrado
15:25 - 15:50	Summary & conclusion
15:50 - 16:00	Closing
16:00 - 18:00	Optional lab visit (PETRA III and FLASH)

List of Posters

Buried & Functional Interfaces

- P01 **Chemical stability of the magnetic oxide EuO on silicon investigated by HAXPES**
C. Caspers, M. Müller, A. X. Gray, A. Gloskovskij, A. M. Kaiser, C. S. Fadley, W. Drube, and C. M. Schneider
- P02 **Chemical profiling with photoemission: A comparison between angle-resolved XPS and high-energy photoemission on full gate stacks**
T. Conard, T. Schram, C. Adelmann, and J. Woicik
- P03 **Determination of band offsets in complex oxide thin-film heterostructures by hard X-ray photoelectron spectroscopy**
G. Conti, A. X. Gray, A. M. Kaiser, A. Greer, J. Karel, S. Ueda, Y. Yamashita, A. Gloskovskij, A. Jannotti, C. G. van de Walle, K. Kobayashi, W. Drube, S. Stemmer, and C.S. Fadley
- P04 **HAXPES experiments with standing-wave excitation on the tri-layer system magnesium oxide/ gold/ iron**
S. Döring, F. Schönbohm, U. Berges, D. E. Bürgler, M. Gorgoi, F. Schäfers, C. M. Schneider, and C. Westphal
- P05 **Non-destructive characterization of the internal structure of nano-layered systems by high kinetic energy photoelectron spectroscopy and reflectometry**
E. O. Filatova, I. V. Kozhevnikov, A. A. Sokolov, E. V. Ubyivovk, S. Yulin, M. Gorgoi, and F. Schaefers
- P06 **Interfactant-mediated growth of rare earth oxides on silicon**
J. I. Flege, B. Kaemena, S. Gevers, J. Höcker, F. Bertram, J. Wollschläger, and J. Falta
- P07 **X-ray photoelectron spectroscopy of cerium oxide on silicon**
A. Allahgholi, J. I. Flege, S. Thiess, W. Drube, and J. Falta
- P08 **Study of semiconductor band bending by hard X-ray photoelectron spectroscopy**
K. Kataoka, T. Narita, D. Kikuta, N. Takahashi, Y. Kimoto, K. Dohmae, T. Uesugi, T. Kachi, T. Sakata, R. Hashimura, N. Idayu, H. Yamatani, S. N. Takeda, and H. Daimon
- P09 **A HAXPES study of a ternary palladium alloy metal-electrolyte-insulator-semiconductor system**
J. Kühn, A. Lippitz, M. Gorgoi, S. Linke, W. Moritz, and W. E. S. Unger
- P10 **Buried interface characterization for a click chemistry derivatized self-assembled monolayer on gold**
E. Darlatt, J. Kühn, J. Poppenberg, S. Richter, C. H.-H. Traulsen, M. Gorgoi, C. A. Schalley, and W. E. S. Unger
- P11 **High-K / $In_{0.53}Ga_{0.47}As$ interface oxidation control characterized by HAXPES**
P. Lysaght, C. Weiland, J. C. Woicik, J. Price, J. Hung, and N. Goel
- P12 **Characterization of InAs-based metal-oxide-semiconductor stacks using HAXPES**
O. Persson, E. Lind, J. Rubio-Zuazo, G. R. Castro, E. Lundgren, L.-E. Wernersson, A. Mikkelsen, and R. Timm
- P13 **Charge carriers in metal oxides and their heterostructures**
C. Schlüter, T.-L. Lee, C. Aruta , and J. Zegenhagen
- P14 **Non-destructive in-situ HAXPES study of resistive switching in Ti/HfO₂/TiN RRAM cells**
M. Sowińska, D. Walczyk, Ch. Wenger, Ch. Walczyk, T. Bertaude, S. Thiess, W. Drube, and T. Schroeder
- P15 **HAXPES characterisation of high-k dielectric metal oxide semiconductor structures on InGaAs substrates**
L. Walsh, G. J. Hughes, B. Brennan, R. M. Wallace, and J. C. Woicik

Correlated Materials and Oxide Heterostructures

- P16 **High temperature electronic and spin states of LaCoO₃: A HAXPES study**
S. Agrestini, J. Weinen, T. Willers, M. Rotter, Z. Hu, T. Lorenz, C. Schüßler-Langeheine, Y. F. Liao, K.-D. Tsuei, and L. H. Tjeng
- P17 **The electronic structure of multiferroic BiFeO₃ from high energy X-ray photoelectron spectroscopy and first principles theory**
R. Knut, S. Faleev, D. Mazumdar, O. Mryasov, A. Gupta, and O. Karis
- P18 **Hard x-ray photoelectron spectroscopy of LaVO₃/ SrTiO₃-heterostructures**
F. Pfaff, A. Müller, H. Boschker, S. Glawion, G. Berner, G. Koster, M. Gorgoi, W. Drube, G. Rijnders, M. Kamp, D. H. A. Blank, M. Sing, and R. Claessen

P19 ***Electronic structure of newly discovered Yb compounds $YbNi_3X_9$ ($X = Al, Ga$) studied by hard X-ray photoemission spectroscopy***

Y. Utsumi, H. Sato, T. Yamashita, S. Ohara, K. Mimura, S. Motonami, K. Shimada, M. Arita, S. Ueda, Y. Yamashita, H. Yoshikawa, K. Kobayashi, H. Namatame, and M. Taniguchi

P20 ***Local correlations, non-local screening, multiplets, band formation, and nearest neighbor spin-spin correlations in NiO***

J. Weinen, S. Agrestini, T. Haupricht, T. Willers, F. Strigari, C. Schüßler-Langeheine, R. Gierth, S. G. Altendorf, Y.-Y. Chin, J. Gegner, H. Fujiwara, A. Hendricks, D. Regesch, Z. Hu, H. Wu, A. Tanaka, K.-D. Tsuei, Y. F. Liao, H. H. Hsieh, H.-J. Lin, C. T. Chen, and L. H. Tjeng

P21 ***Electronic structure analysis of $Pr_{1-x}A_xCoO_{3-\delta}$ ($A = Sr$ and Ca)***

T. Yoshioka and T. Yamamoto

Magnetic Materials

P22 ***Interface characterization of all-Heusler GMR multilayer structures***

R. Knut, O. Mryasov, P. Warnicke, P. Svedlindh, S. Granroth, D. Arena, M. Björk, R. Bejhed, and O. Karis

P23 ***Magnetic dichroism in angle-resolved hard X-ray photoemission from buried layers***

X. Kozina, G. H. Fecher, G. Stryganyuk, S. Ouardi, B. Balke, C. Felser, E. Ikenaga, T. Sugiyama, N. Kawamura, M. Suzuki, T. Taira, T. Uemura, M. Yamamoto, H. Sukegawa, W. Wang, K. Inomata, and K. Kobayashi

P24 ***Valence states of off-stoichiometric thin films based on the Heusler compound Co_2MnSi***

X. Kozina, S. Ouardi, G. Stryganyuk, B. Balke, S. Chadov, G. H. Fecher, C. Felser, T. Ishikawa, T. Uemura, M. Yamamoto, E. Ikenaga, Y. Yamashita, S. Ueda, and K. Kobayashi

P25 ***Symmetry of valence states of Heusler compounds explored by linear dichroism in hard X-ray photoelectron spectroscopy***

S. Ouardi, G.H. Fecher, X. Kozina, G. Stryganyuk, B. Balke, C. Felser, E. Ikenaga, T. Sugiyama, N. Kawamura, and M. Suzuki, and K. Kobayashi

P26 ***Spin polarimetry in hard X-ray photoelectron spectroscopy on buried magnetic layers***

G. Stryganyuk, X. Kozina, E. Ikenaga, T. Sugiyama, K. Inomata, K. Kobayashi, G. Schönhense, G. H. Fecher, and C. Felser

P27 ***Spin dependent core hole screening of 2p and 3s photoemission in ferromagnetic transition metals***

M. Takahashi

Materials Science

P28 ***Exploration of "in gap" states of thermoelectric Heusler compounds by means of hard X-ray photoelectron spectroscopy***

B. Balke, S. Ouardi, G. H. Fecher, C. Felser, E. Ikenaga, S. Ueda, and K. Kobayashi

P29 ***HAXPES characterisation of the nm-thick protecting oxide layer on new Al-Cr-Fe complex metallic alloys***

A. Beni, N. Ott, M. Wardé, B. Bauer, P. Rajput, B. Detlefs, J. Zegenhagen, M. G. Barthés-Labrousse, and P. Schmutz

P30 ***Soft X-ray angle-resolved photoemission study on iron pnictide***

M. Kobayashi, V. N. Strocov, E. Razzoli, S. Ming, T. Schmitt, Y. Huang, H. Ding, M. Oshima, and L. Patthey

P31 ***Core disorder broadening in PdAg(100) surface alloys***

V. R. R. Medicherla, and W. Drube

P32 ***Corrosion resistance of Fe-Al alloys: the role of Cr***

R. E. Perälä, S. Granroth, M. H. Heinonen, E. Kukk, M. P. J. Punkkinen, E. Nurmi, and K. Kokko

P33 ***HAXPES on strained $SrRuO_3$ thin films***

A. Quer, E. Kröger, M. Kalläne, R. Soni, A. Petraru, E. Ludwig, H. Kohlstedt, L. Kipp, and K. Rossnagel

P34 ***Composition of CuAu alloys and changes upon corrosion investigated by HAXPES***

P. Rajput, A. Gupta, B. Detlefs, D. M. Kolb, and J. Zegenhagen

P35 ***Spectroscopic fingerprint of electron localization in the anomalous metallic regime of k -(BEDT-TTF)₂Cu[N(CN)₂]Br***

G. Schönhense, K. Medjanik, A. Gloskovskij, H. J. Elmers, M. de Souza, J. Müller, and M. Lang

- P36 ***Investigations of the valence band of thermoelectric Heusler compounds by high energy photoelectron spectroscopy***
M. Schwall, B. Balke, S. Ouardi, A. Gloskovskij, G. H. Fecher, and C. Felser
- P37 ***Bulk-sensitive photoemission study of FeSe and related compounds***
A. Yamasaki, Y. Matsui, Y. Nishitani, S. Imada, K. Takase, H. Azuma, T. Muro, Y. Kato, A. Sekiyama, S. Suga, A. Higashiyama, M. Yabashi, K. Tamasaku, T. Ishikawa, K. Terashima, H. Kobori, N. Umeyama, H. Sato, Y. Hara, N. Miyakawa, and S. I. Ikeda
- P38 ***Immobilized palladium catalysts on sulfur terminated substrate studied by hard X-ray photoemission***
H. Yoshikawa, M. Shimoda, M. Arisawa, S. Shuto, T. Konishi, S. Tsukamoto, Y. Yamashita, S. Ueda, and K. Kobayashi

Theory and Fundamental Aspects

- P39 ***The one-step model approach to HAXPES***
J. Braun, J. Minar, and H. Ebert
- P40 ***Multipole contributions to the photoelectric absorption determined by XSW/ HAXPES***
B. Detlefs, S. Thiess, J. Roy, and J. Zegenhagen
- P41 ***Improved Tougaard background calculation using predetermined inelastic electron scattering cross section functions $\lambda(E) \cdot K(E, T)$ using the software UNIFIT 2011***
R. Hesse and R. Denecke
- P42 ***Comparative study of improved Tougaard background and Shirley background calculation using test functions and real photoemission spectra***
R. Hesse, M. Welke, and R. Denecke
- P43 ***Interface quality from theoretical core level shifts***
W. Olovsson, E. Holmström, T. Marten, I. A. Abrikosov, and A. M. N. Niklasson
- P44 ***Free-electron final-state calculations for the interpretation of hard X-ray angle-resolved photoemission***
L. Plucinski, J. Minar, J. Braun, A. X. Gray, S. Ueda, Y. Yamashita, K. Kobayashi, H. Ebert, C. S. Fadley, and C. M. Schneider
- P45 ***Bond strength influence on the recoil effect in carbon based materials: A HAXPES study***
M. Gorgoi, F. Schäfers, and A. Föhlisch

Facilities and Instrumentation

- P46 ***New opportunities for a spin resolved soft and hard X-ray photoemission experiment at BESSY II***
M. Gorgoi, F. Schäfers, R. Follath, and A. Föhlisch
- P47 ***XSW and HAXPES at the ID32 beamline***
J. Duvernay, L. Petit, L. Andre, T.-L. Lee, E. Gagliardini, B. Detlefs, H. Isern, J. Roy, P. Rajput, and J. Zegenhagen
- P48 ***Highly efficient multichannel spin polarimeter***
M. Kolbe, P. Lushchyk, D. Kutnyakhov, H. J. Elmers, G. Schönhense, C. Tusche, J. Kirschner, S. Mähli, M. Johansson, D. Funnemann, S. Bahr, O. Schaff, and A. Oelsner
- P49 ***A new opportunity for HAXPES at DIAMOND light source***
T.-L. Lee and F. Venturini
- P50 ***Hard X-ray photoelectron spectroscopy at PETRA III-beamline P09***
S. Thiess, A. Gloskovskij, G. Berner, H. Schulz-Ritter, F. Okrent, F. Pfaff, M. Sing, A. Allahgholi, G. Fecher, C. Felser, R. Claessen, and W. Drube
- P51 ***High energy photoemission spectroscopy endstation at the SXRMB beamline of CLS***
Q. F. Xiao, Y. F. Hu, and T. K. Sham