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Tony Weight

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<ti> iWoRID 2011: 13th International Workshop on Radiation Imaging Detectors.</ti>

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Putting an issue online

- An in-house online conversion program
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- Papers checked online on staging server before going live

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Factors determining the order of papers in an issue

- Paper category
- Series of papers
- Colour pages



Issue S110500

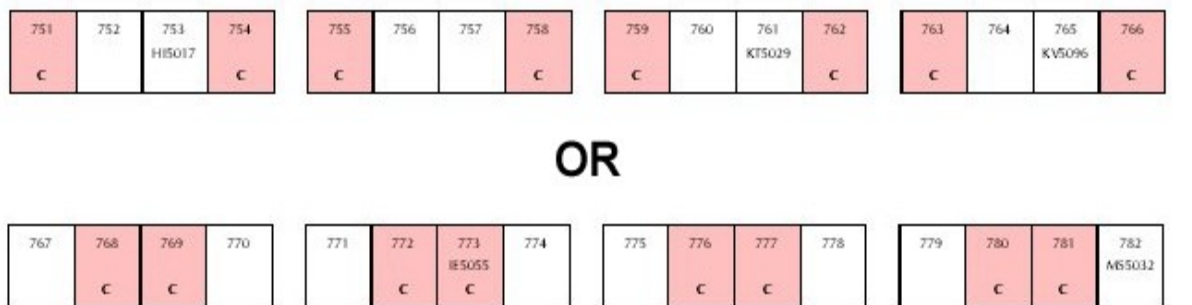
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759 C	760 C	761 KT5029 C	762 C	763 C	764 C	765 KV5096 C	766 C	767 C	768 C	769 C	770 C	771 C	772 C	773 IE5055 C	774 C
775 C	776 C	777 C	778 C	779 C	780 C	781 C	782 M55012 C	783 C	784 C	785 C	786 C	787 C	788 C	789 C	790 VE5007 C
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Issue plan

- Each box represents a page of the issue
- Red boxes represent colour pages
- Each row of 16 pages is a `16-page signature'

Issue plan



- 'Single-sided arrangement'
- any colour pages must fall into either of these patterns



- 'Double-sided arrangement'
- colour falling into other patterns

Issue plan

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- More economical
 - Many black and white sections
 - Minimal colour
 - Colour fits a single-sided arrangement

Issue plan

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- Less economical
 - Few black and white sections
 - Lots of colour
 - All colour falls into a double-sided arrangement

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 Three-dimensional chemical map of ~50 nm
 resolution of a partially discharged Li-ion
 NiO battery electrode showing both the NiK
 (red) and Ni (green) components; blue pixels
 contain both species (see Meier, Cabana,
 Liu, Maiba, Andrews and Planella, pages
 773-781). Data were collected at ESRF
 beamline E4 with a full-field transmission
 K-ray microscope at multiple energies along
 the Ni K-edge. This is a powerful method for
 correlating chemistry and morphology in
 technological and biological materials at the
 nanoscale.
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September 2011

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research papers

<p>689</p> <p>Comparison of <i>in vitro</i> breast cancer visibility in analyser-based computed tomography with histopathology, mammography, computed tomography and magnetic resonance imaging</p> <p>J. Keyriläinen, M. Fernández, A. Bavin, M.-L. Karjalainen-Lindsberg, M. Leidenius, K. von Smitten, M. Tenhunen, A. Kangamäki, P. Sipilä, C. Nemoz, P. Virkkunen and P. Suortti</p>	<p>High-resolution analyser-based X-ray computed tomography findings on <i>in vitro</i> human breast cancer are compared with histopathology, mammography X-ray computed tomography and magnetic resonance imaging.</p>
<p>697</p> <p>Nanocomposite characterization on multiple length scales using μSAXS</p> <p>R. Li, S. Cornaby, M. Kamperman and D.-M. Smilgies</p>	<p>Scanning microbeam small-angle X-ray scattering is used to characterize a thermoset resin/poly(isoprene-<i>block</i>-ethylene oxide) nanocomposite on multiple length scales with respect to homogeneity and microphase separation.</p>
<p>702</p> <p>Measurement of angular distribution of soft X-ray radiation from thin targets in the tabletop storage ring MIRRORCLE-20SX</p> <p>H. Yamada, D. Minkov, Y. Shimura, C. Scouris, O. K. Ejike, D. Hasegawa, M. Yamada, T. Hanashima and K. Atkinson</p>	<p>Measured angular distributions of the radiation from several different targets in the magnetic field of the 20 MeV storage ring MIRRORCLE-20SX are presented.</p>
<p>708</p> <p>SHADOW3: a new version of the synchrotron X-ray optics modelling package</p> <p>M. Sanchez del Rio, N. Canestrari, F. Jiang and F. Cerrina</p>	<p>SHADOW3, a new version of the X-ray tracing code SHADOW, is introduced.</p>
<p>717</p> <p>Automated sample-scanning methods for radiation damage mitigation and diffraction-based centering of macromolecular crystals</p> <p>M. C. Hilgart, R. Sanishvili, C. M. Ogata, M. Becker, N. Venugopalan, S. Stepanov, O. Makarov, J. L. Smith and R. F. Fischetti</p>	<p>Two sample-scanning features have been implemented for the macromolecular crystallography beamline at APS sector 23: automated diffraction-based centering employing multiple polygon-shaped two-dimensional grids overlaid on a sample to locate and center small and invisible crystals or to find the best-diffracting regions in a larger crystal, and automated data collection along a three-dimensional vector to mitigate the effects of radiation damage.</p>
<p>723</p> <p>Quantum critical point in $\text{SmO}_{1-x}\text{F}_x\text{FeAs}$ and oxygen vacancy induced by high fluorine dopant</p> <p>J. Cheng, S. Chu, W. Chu, W. Xu, J. Zhou, L. Zhang, H. Zhao, B. Liu, X. Chen, A. Maccelli and Z. Wu</p>	<p>The local lattice and electronic structure of the high-T_c superconductor $\text{SmO}_{1-x}\text{F}_x\text{FeAs}$ as a function of F-doping have been investigated by $\text{Sm L}_{2,3}$ edge X-ray absorption near-edge structure and multipole-refinement calculations.</p>

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728	The measurement of differential EXAFS modulated by high pressure S. Chu, L. Zheng, Y. Zhou, A. Zhou, J. Zhang, R. Che, J. Liu and T. Hu	Differential EXAFS (DREXAFS) is able to detect subtle atomic perturbations in the local area of the absorbing atom. Here a new method of performing DREXAFS experiments under the modulation of high pressure has been developed.
733	Effects of alkyl side chains on properties of aliphatic amino acids probed using quantum chemical calculations A. Ganesan, F. Wang, M. Brunger and K. Prince	Side chain effects of amino acids are investigated using simulated ionization spectra in both valence and core spaces.
743	X-ray tomography of morphological changes after freeze/thaw in gas diffusion layers J. Je, I. Kim, M. Kaviany, S. Y. Son and M. Kim	Gas-diffusion-layer morphological changes by the freeze/thaw cycle are shown using X-ray tomography.
747	Two-dimensional approach to fluorescence yield XANES measurement using a silicon drift detector Y. Tameno, M. Morita and T. Nakamura	Partial fluorescence yield XANES measurements were performed using a silicon drift detector in the soft X-ray region. This technique provides unambiguous XANES data in the soft X-ray region, where absorption edges of different elements are close to each other, or where fluorescence lines overlap.
753	In-line Bragg magnifier based on V-shaped germanium crystals P. Vagošič, D. Korytár, P. Mikulík, A. Cecilia, C. Ferrari, Y. Yang, D. Hänischke, E. Hamann, D. Pelliccia, T. A. Lafford, M. Fiederle and T. Baumbach	The design and experimental testing of the in-line Ge (220) Bragg magnifier used for full-field phase-contrast X-ray imaging are described.
761	Carbon contamination of soft X-ray beamlines: dramatic anti-reflection coating effects observed in the 1 keV photon energy region C. Chauvet, F. Polack, M. G. Silly, B. Lagarde, M. Thomasset, S. Kubsly, J. P. Duval, P. Risterucci, B. Pilette, I. Yao, N. Bergaud and F. Sirotti	When carbon contamination of beamline optics reaches thicknesses of several nanometres, strong reflectivity losses are observed in the 1 keV photon energy region.
765	European research platform IPANEMA at the SOLEIL synchrotron for ancient and historical materials L. Bertrand, M.-A. Languille, S. X. Cohen, L. Robinet, C. Gervais, S. Leroy, D. Bernard, E. Le Penneç, W. Jomez, J. Doucet and S. Schöder	A description of the IPANEMA platform, a new European research platform devoted to ancient and historical materials at Synchrotron SOLEIL, is given.
773	Three-dimensional imaging of chemical phase transformations at the nanoscale with full-field transmission X-ray microscopy F. Meier, I. Cabana, Y. Liu, A. Mehta, J. C. Andrews and P. Pianetta	Two-dimensional and three-dimensional single-pixel and single-voxel z-position of Ni in Li-ion battery electrodes is accomplished combining full-field hard X-ray transmission microscopy and XANES imaging at tens of nanometres resolution.
782	Radiation damage reveals promising interaction position C. Koch, A. Heine and G. Klebe	A bromide cleaved off an inhibitor owing to radiation damage was found to occupy an adjacent free volume using promising formerly unidentified interactions.
790	Microprobing the molecular spatial distribution and structural architecture of feed-type sorghum seed tissue (<i>Sorghum bicolor</i> L.) using the synchrotron radiation infrared microspectroscopy technique	Synchrotron radiation infrared microspectroscopy is used to microprobe the molecular spatial distribution and structural architecture of the sorghum seed tissue.

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802	Milli-electronvolt monochromatization of hard X-rays with a sapphire backscattering monochromator	Monochromatization of hard X-rays in the 20-40 keV energy range to ~1 meV bandwidth using a sapphire backscattering monochromator is demonstrated.
I. Senguev, H.-C. Wille, R. P. Hermann, D. Bessas, Y. V. Shvyd'ko, M. Zajac and R. Rüffer		
811	Application of X-ray fluorescence to turbulent mixing	Measurements of the mixing of a gas jet are made using X-ray absorption and fluorescence to demonstrate the feasibility of X-ray fluorescence as a fluid flow diagnostic. The measurements demonstrate that X-ray fluorescence can provide a quantitative robust measure of fluid mixing in a flow with weak X-ray absorption.
A. Karstengen, C. F. Powell, E. M. Dufresne and D. A. Walko		
short communications		
816	Design of an anaerobic sample chamber for fluorescence measurements compatible with the Lytle detector	It is shown how a Stem-Hinoki detector can be modified to load multiple samples and measure them without changing the conditions inside the chamber. The details of the design of the chamber along with the parts needed to make it work successfully are provided.
5: -,-,- T. Shibata, V. N. Zyryanov and S. Chattopadhyay		
818 books received		
819 current events		
822 forthcoming meetings and short courses		

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1 Synchrotron Rad. (2011) 18, 1-11 xix

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- Meetings pages

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meetings

9: [Issue description meetings \(ajr\)](#) : top

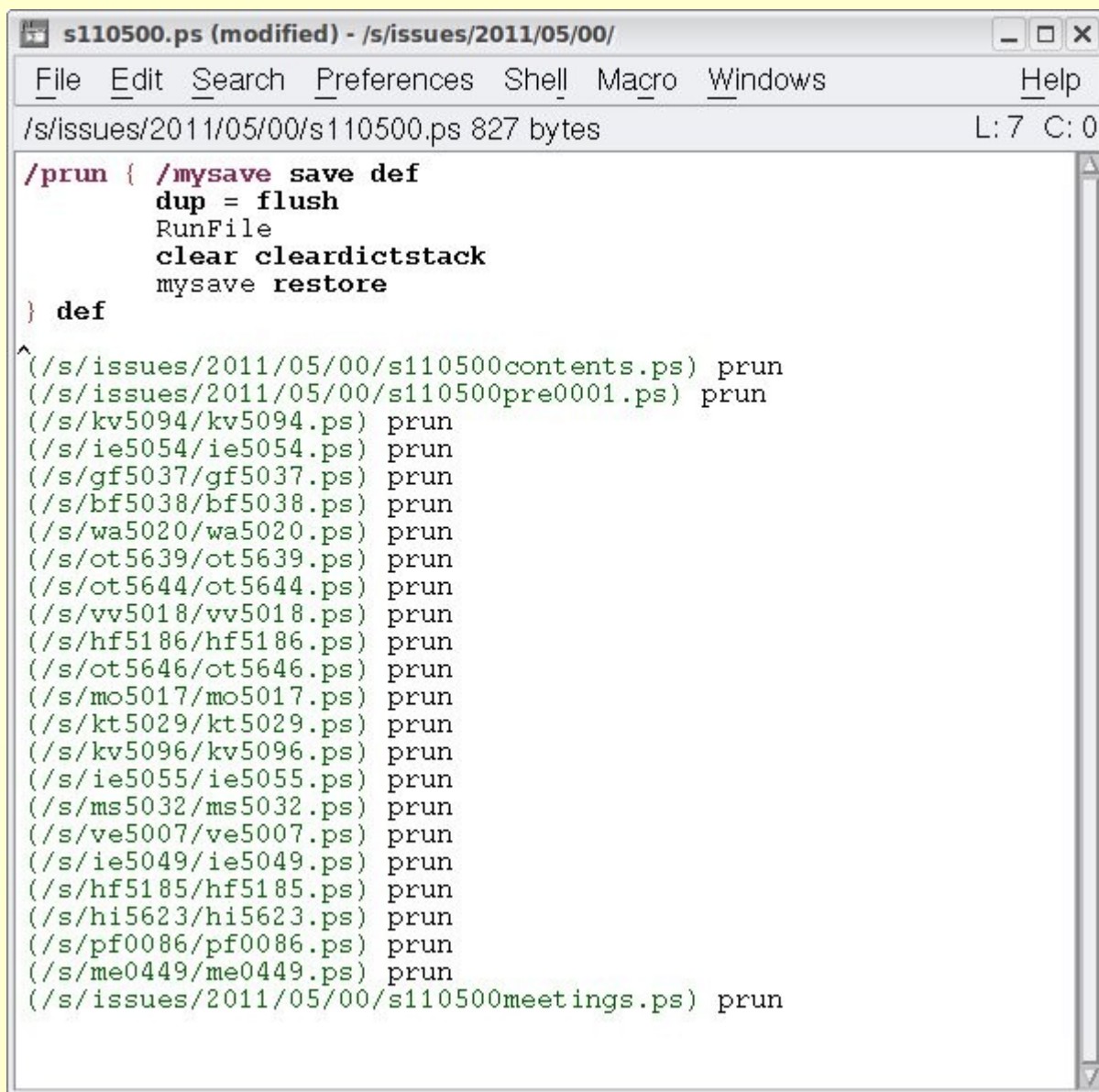
<p>summary Synchrotron Radiation ISSN 0903-0485</p>	<p>forthcoming meetings and short courses</p>	
<p>5: issuesgml, - : one.main</p> <p>forthcoming meetings This section carries meetings of interest to synchrotron radiation scientists, including meetings of scientific societies, congresses, summer schools etc. Details of meetings for inclusion here in print and on the World Wide Web at URL http://www.lucr.org/cwv-top/mg.data.html, subject to the approval of the Editorial Board, should be sent to the Editorial Office, 5 Abbey Square, Chester CHI 2HU, UK (e-mail: med@lucr.org).</p> <p>2011</p> <p>1-8 September 2011: Trieste, Italy. WIRMS - 5th International Workshop on Infrared Spectroscopy and Microscopy with Accelerator-Based Sources. For further information contact http://www.elettra.trieste.it/WIRMS/.</p> <p>4-9 September 2011: Kursaal, San Sebastian, Spain. Second International Particle Accelerator Conference (IPAC 2011). For further information contact http://www.ipac-2011.org/Inko.asp.</p> <p>5-9 September 2011: Melbourne, Australia. Powder Diffraction at Australia's Synchrotron and OPAL Facilities: Experiment Planning to Data Analysis. For further information contact http://www.synchrotron.org.au/Indec.php?news/events/australian-events/evnt77-pd-workshop.</p> <p>7-9 September 2011: Hamburg, Germany. Macasenz 2011. 6th International Conference on Mechanical Stress Evaluation by Neutrons</p>	<p>and synchrotron radiation. For further information contact http://www.mecasenz2011.de/.</p> <p>14-18 September 2011: Hamburg, Germany. HAXPES 2011: 4th International Workshop on Hard X-ray Photoelectron Spectroscopy. For further information contact http://Indko.desy.de/evnt/haxpess2011.</p> <p>15-18 September 2011: Villigen, Switzerland. JRM&P 11: Second Joint Users' Meeting @ PSI. For further information contact http://Indko.psi.ch/conferenceDisplay.py?confid=42.</p> <p>16-17 September 2011: Stoughton, WI, USA. The Synchrotron Radiation Center Users' Meeting. For further information contact http://www.sr.wisc.edu/meetings/um2011/.</p> <p>24-27 September 2011: Bordeaux, France. The 4th ITR Workshop, Imaging Techniques with Synchrotron Radiation. For further information contact http://www.cbm.u-bordeaux.fr/ES-ITR/Indec-ITR.html.</p> <p>3-5 October 2011: Berkeley, CA, USA. 2011 ALS Users' Meeting. For further information contact http://www.als.lbl.gov/Indec.php/user-information/users-meeting.html.</p> <p>10-12 October 2011: Hamburg, Germany. GIBANS 2011. For further information contact http://Indko.desy.de/conferenceDisplay.py?confid=4772.</p> <p>10-14 October 2011: Grenoble, France. 13th International Conference on Accelerator and Large Experimental Physics Control Systems (ICALEPS 2011). For further information contact http://icaleps2011.csf.fr/.</p>	<p>12-14 October 2011: Hamburg, Germany. New Science Opportunities at FLASH. For further information contact http://Indko.desy.de/conferenceDisplay.py?confid=4425.</p> <p>13-14 October 2011: Karlsruhe, Germany. 3rd ANKA/ANMF Joint Users Meeting. For further information contact http://anka.lsz.it.edu/english/448.php.</p> <p>24-26 October 2011: Menlo Park, CA, USA. SSSL and LCLS Users' Conference and Workshops. For further information contact http://www-conf.dac.stanford.edu/arl-hls/2011/default.asp.</p> <p>24-26 October 2011: Bangkok, Thailand. 6th Asia-Oceania Forum for Synchrotron Radiation Research and 4th SLRI Annual Users Meeting. For further information contact http://www.srl.or.th/aofsr2011/Indec.php.</p> <p>6-9 December 2011: Tsukuba, Japan. Improving the data quality and quantity for XAPS experiments. For further information contact http://www.lucr.org/news/notices/meetings/meeting_2010_231.</p> <p>2012</p> <p>9-13 July 2012: Lyon, France. 11th International SRI Conference. For further information contact http://www.srl2012.org/Indec.html.</p> <p>15-18 July 2012: Hamburg, Germany. Satellite Meeting to the 11th International SRI Conference 'Science at FELs'. For further information contact http://science-at-fels-2012.desy.de/.</p>
<p>1: Foot, - : Foot</p> <p>822</p>	<p>1: Foot, - : Foot</p> <p>1: Synchrotron Rad. (2011) 48, 822</p>	



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- Pages are formatted in journal style, including covers
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- Contents pages can be cross-checked with articles
- Final postscript files are created for each page


Issue driver file



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File Edit Search Preferences Shell Macro Windows Help
/s/issues/2011/05/00/s110500.ps 827 bytes L: 7 C: 0
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dup = flush
RunFile
clear cleardictstack
mysave restore
} def
^(/s/issues/2011/05/00/s110500contents.ps) prun
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A list of all the postscript files for the inside pages

This file is used to create a final pdf of the inside pages



Checks for pdf of inside pages

- Check all pages present and in order
- Page through PDF in double-page view
- Check running headers and footers
- Check colour pages agree with issue plan
- Page through PDF in single-page view scanning for errors
- Pre-flight check in Acrobat



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