

01A1	SWLS - White X-ray (PRT 75%)
01B1	SWLS - X-ray Microscopy (PRT 75%)
01C1	SWLS - EXAFS
01C2	SWLS - X-ray Powder Diffraction
03A1	BM - (HF-CGM) - Gas Phase/Photoluminescence
04B1	BM - (Seya) SRCD
05A1	EPU - Inelastic Scattering
05B1	EPU - Soft X-ray Chemistry
05B2	EPU - PEEM
05B3	EPU - Soft X-ray Scattering
07A1	IASW - X-ray Scattering
08A1	BM - (L-SGM) XPS, UPS
08B1	BM - (MAGM) XAS, XPS
09A1	U5 - SPEM
09A2	U5 - Spectroscopy
11A1	BM - (Dragon) MCD, XAS (PRT 75%)
13A1	SW6 - X-ray Scattering
13B1	SW6 - Protein Crystallography
13C1	SW6 - Protein Crystallography
14A1	BM - IR Microscopy
16A1	BM - Tender X-ray Absorption, Diffraction
17A1	W20 - X-ray Diffraction
17B1	W20 - X-ray Scattering
17C1	W20 - EXAFS
18B1	BM - LIGA
18B2	
19A	
20A1	BM - (H-SGM) XAS
20B	
21A1	U9 - (White Light) Chemical Dynamics (PRT 50%)
21A2	U9 - (White Light) Photochemistry
21B1	U9 - (CGM) Angle-Resolved UPS, Gas Phase
21B2	U9 - Gas Phase
23A1	IASW - Small Angle X-ray Scattering
24A1	BM - (WR-SGM) XPS, UPS
SP12B1	BM - Materials X-ray Study
SP12B2	BM - Protein X-ray Crystallography
SP12U1	U3.2 - Inelastic X-ray Scattering

01A1 SWLS - White X-ray (PRT 75%)

1. Y. F. Song, C. H. Chang, C.Y. Liu, L. J. Huang, S. H. Chang, J. M. Chuang, S. C. Chung, P. C. Tseng, J. F. Lee, K. L. Tsang, and K. S. Liang, "X-ray Beamlines on a Superconducting Wavelength Shifter", SRI2003.

01B1 SWLS - X-ray Microscopy (PRT 75%)**01C1 SWLS - EXAFS**

1. Y.-F. Song,* (宋艷芳), C.-H. Chang, C.-Y. Liu, S.-H. Chang, U.-S. Jeng, Y.-H. Lai, D.-G. Liu, S.-C. Chung, K.-L. Tsang, G.-C. Yin, J.-F. Lee, H.-S. Sheu, M.-T. Tang, C.-S. Hwang, Y.-K. Hwu, and K. S. Liang, "X-ray beamlines for structural studies at the NSRRC superconducting wavelength shifter", J. Synchrotron Rad. **14**, 320 (2007).

01C2 SWLS - X-ray Powder Diffraction

03A1 BM - (HF-CGM) - Gas Phase/Photoluminescence

1. H.-C. Lu and B.-M. Cheng, "Analysis of Nitrogen Defects in Diamond with VUV Photoluminescence", *Anal. Chem.* **83**, 6539. (2011).
2. B.-M. Cheng, H.-F. Chen, H.-C. Lu, H.-K. Chen, M. S. Alam, S.-L. Chou, and M.-Y. Lin, "Absorption Cross Section of Gaseous Acetylene at 85 K in Wavelength Range 110-155 nm", *Astrophys. J. Suppl. Series*, **196**, 3 (6pp) (2011).
3. H.-C. Lu, H.-K. Chen, B.-M. Cheng, and J. F. Ogilvie, "Absorption Spectra in the Vacuum Ultraviolet Region of Small Molecules in Condensed Phases", *Spectrochimica Acta A Mol. Biom. Spectr.* **71**, 1485 (2008).
4. B.-M. Cheng, H.-C. Lu, H.-K. Chen, M. Bahou, Y.-P. Lee, A. M. Mebel, L. C. Lee, M.-C. Liang, and Y. L. Yung, "Absorption Cross Sections of NH_3 , NH_2D , NHD_2 , and ND_3 in the Spectral Range 140-220 nm and Implication to Planetary Isotopic Fractionation", *Astrophys. J.* **647**, 1535 (2006).
5. T. F. Hsieh, L. R. Huang, S. C. Chung, T. E. Dann, P. C. Tseng, C. T. Chen, and K. L. Tsang, "Design of a High-flux and High-resolution VUV Bending-magnet Beamline", *Journal of Synchrotron Radiation* **5**, pt.3, 1 May 1998, 562. Denmark (1998).

04B1 BM - (Seya) SRCD

1. P. C. Tseng, T. F. Hsieh *et al.*, *Rev. Sci. Instrum.* **66**, 1815 (1995).

05A1 EPU - Inelastic Scattering

1. H. S. Fung, *et al.*, NSRRC Internal Report, SRRC/RBM/IM/02-02 (2002).
2. H. S. Fung, C. T. Chen, L. J. Huang, C. H. Chang, S. C. Chung, D. J. Wang, T. C. Tseng, and K. L. Tsang, Proceedings of the Eighth International Conference on Synchrotron Radiation Instrumentation (2003) (Submitted).

05B1 EPU - Soft X-ray Chemistry

1. D. H. Wei, Y.-J. Hsu, G.-C. Yin, Y.-S. Wu, and J.-C. Jan, "The Photoelectron Emission Microscopy Station at SRRC", *J. Phys. IV France* **104**, 77 (2003).
2. D. H. Wei, Y. J. Hsu, I. H. Hong, R. Klauser, G. C. Yin, and T. J. Chuang, "Photoelectron Microscopy Project at SRRC", *Surf. Rev. Lett* **10**, 617 (2003).
3. D. J. Huang, W. P. Wu, J. Chen, C. F. Chang, S. C. Chung, M. Yuri, H. J. Lin, P. D. Johnson, and C. T. Chen, "Performance of a Mott Detection for Undulator-based Spin-resolved Spectroscopy", *Rev. Sci. Instrum.* **73**, 3778 (2002).
4. S. C. Chung, J. Chen, L. R. Huang, R. T. Wu, C.-C. Chen, N.-F. Cheng, J. M. Chuang, P. C. Tseng, D. J. Huang, C. F. Chang, S. Y. Perng, C. T. Chen, and K. L. Tsang, *Nucl. Instru. & Meth. A* **467**, 445 (2001).
5. S. C. Chung, Y. F. Song, P. C. Tseng, C. C. Chen, C. T. Chen, and K. L. Tsang, *J. Syn. Rad.* **5**, 551 (1998).

05B2 EPU - PEEM

1. D. H. Wei, Y.-L. Chan, and Y.-J. Hsu, "Exploring the Magnetic and Organic Microstructures with Photoemission Electron Microscope", *J. Electron Spectrosc. Relat. Phenom* (2012).
<http://www.sciencedirect.com/science/article/pii/S0368204812000242>
2. D. H. Wei, Y. J. Hsu, R. Klauser, I. H. Hong, G. C. Yin, and T. J. Chuang, "Photoelectron Microscopy Projects at SRRC", *Surf. Rev. Lett.* **10(4)**, 617 (2003).
<http://www.worldscinet.com/srl/10/1004/S0218625X0300544X.html>
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5. S. C. Chung, J. Chen, L. R. Huang, R. T. Wu, C.-C. Chen, N.-F. Cheng, J. M. Chuang, P. C. Tseng, D. J. Huang, C. F. Chang, S. Y. Perng, C. T. Chen, and K. L. Tsang, *Nucl. Instru. & Meth. A* **467**, 445 (2001).
6. S. C. Chung, Y. F. Song, P. C. Tseng, C. C. Chen, C. T. Chen, and K. L. Tsang, *J. Syn. Rad.* **5**, 551 (1998).

05B3 EPU - Soft X-ray Scattering

1. D. H. Wei, Y. J. Hsu, I. H. Hong, R. Klauser, G. C. Yin, and T. J. Chuang, "Photoelectron Microscopy Project at SRRC", Surf. Rev. Lett **10**, 617 (2003).
2. D. H. Wei, Y.-J. Hsu, G.-C. Yin, Y.-S. Wu, and J.-C. Jan, "The Photoelectron Emission Microscopy Station at SRRC", J. Phys. IV France **104**, 77 (2003).
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4. S. C. Chung, J. Chen, L. R. Huang, R. T. Wu, C.-C. Chen, N.-F. Cheng, J. M. Chuang, P. C. Tseng, D. J. Huang, C. F. Chang, S. Y. Perng, C. T. Chen, and K. L. Tsang, Nucl. Instru. & Meth. **A467**, 445 (2001).
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07A1 IASW - X-ray Scattering

1. S.-H. Chang, C.-H. Chang, J.-M. Juang, L.-J. Huang, T.-F. Lin, C.-Y. Liu, C.-F. Chang, D.-G. Liu, K.-L. Tsang, W.-F. Pong, C.-H. Du, S.-L. Chang, Y.-L. Soo and M.-T. Tang, "Design and Commission of a Superconducting Wiggler X-ray Beamline for Advanced Materials Investigation at the National Synchrotron Radiation Research Center", Chin. J. Phys. (Taipei) **50**, 220 (2012).

08A1 BM - (L-SGM) XPS, UPS

1. P.-C. Tseng, H.-J. Lin, S.-C. Chung, C.-I. Chen, H.-F. Lin, T.-E. Dann, Y.-F. Song, T.-F. Hsieh, K.-L. Tsang, and C.-N. Chang, "Current Status of the 6 m Low-energy Spherical Grating Monochromator Beamline at SRRC", Rev. Sci. Instrum. **66**, 1658 (1995).
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08B1 BM - (MAGM) XAS, XPS

09A1 U5 - SPEM

1. R. Klauser, I.-H. Hong, T.-H. Lee, G.-C. Yin, D.-H. Wei, K.-L. Tsang, T. J. Chuang, S.-C. Wang, S. Gwo, M. Zharnikov, and J.-D. Liao, Surf. Rev. Lett. **9**, 213 (2002).
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3. J.-W. Chiou and C.-H. Chen, Ch. 4 in "X-Rays in Nanoscience", Editor: J. Guo, Wiley-VCH, Weinheim, Germany. ISBN: 978-3-527-32288-1
4. I. H. Hong, T. H. Lee, G.-C. Yin, D. H. Wei, J. M. Juang, T.-E. Dann, R. Klauser, T. J. Chuang, C. T. Chen, and K. L. Tsang, "Performance of the SRRC Scanning Photoelectron Microscope", Nucl. Instrum. Methods **A. 467** 905 (2001).
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09A2 U5 - Spectroscopy

1. Y.-J. Hsu, Y.-J. Hung, Y.-C. Lin, Y.-L. Lai, H.-T. Chang, J.-H. Wang, Y. L. Chan, C.-L. Hsia, M.-F. Luo, C.-H. Lee, and D. H. Wei, "The Origin of Interfacial Electronic and Magnetic Degradation for a Ferromagnet atop Organic Conjugated Molecules", Synthetic Metals **161**, 575 (2011).

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2. I. H. Hong, T. H. Lee, G.-C. Yin, D. H. Wei, J. M. Juang, T.-E. Dann, R. Klauser, T. J. Chuang, C. T. Chen, and K.L. Tsang, "Performance of the SRRC Scanning Photoelectron Microscope", Nucl. Instrum. Methods **A. 467** 905 (2001).
3. I. H. Hong, T. H. Lee, G.-C. Yin, D. H. Wei, J. M. Juang, T.-E. Dann, R. Klauser, T. J. Chuang, C. T. Chen, and K.L. Tsang, "Performance of the SRRC Scanning Photoelectron Microscope", Nucl. Instrum. Methods **A. 467** 905 (2001).
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11A1 BM - (Dragon) MCD, XAS (PRT 75%)

1. C. T. Chen and F. Sette, Rev. Sci. Instrum. **60**, 1616 (1989).
2. C. T. Chen, Nucl. Instrum. Methods Phys. Res. Sect. A **256**, 595 (1987).

13A1 SW6 - X-ray Scattering

1. C. I. Ma, C. H. Chang, L. J. Huang, C. C. Chen, P. C. Tseng, H. S. Fung, S. C. Chung, S. Y. Perng, D. J. Wang, Y. C. Jean, K. L. Tsang, and C. T. Chen, "*High-Performance Asymmetric-Cut Curved Crystal Monochromator Side-Branch X-ray Beamlines*", Proceedings of the 8th International Conference on Synchrotron Radiation Instrumentation, submitted.

13B1 SW6 - Protein Crystallography

1. P. C. Tseng, Y. C. Jean, C. H. Chang, L. J. Huang, H. S. Fung, Y. F. Song, C. I. Ma, Y. S. Huang, F. Chao, C. J. Chen, and K. L. Tsang. SRRC internal report, SRRC/RBM/IM/02-04 (2002).

13C1 SW6 - Protein Crystallography

1. C. I. Ma, C. H. Chang, L. J. Huang, C. C. Chen, P. C. Tseng, H. S. Fung, S. C. Chung, S. Y. Perng, D. J. Wang, Y. C. Jean, K. L. Tsang, and C. T. Chen, "*High-Performance Asymmetric-Cut Curved Crystal Monochromator Side-Branch X-ray Beamlines*", Proceedings of the 8th International Conference on Synchrotron Radiation Instrumentation, submitted.

14A1 BM - IR Microscopy

1. C. I. Chen, Y. C. Lo, and K. L. Tsang, "*Optical Design and Construction of Mid-infrared Beamline at SRRC*", SRRC/RBM/IM/99-06.
2. Y. C. Lo, C. I. Chen, C. H. Chang, and K. L. Tsang. "*Performance of an Infrared Beamline for High Spatial Resolution*" FTIR microscopy. Proceedings of the Eighth International Conference on Synchrotron Radiation Instrumentation (2003).

16A1 BM - Tender X-ray Absorption, Diffraction

1. T.-E. Dann, S.-C. Chung, L.-J. Huang, J.-M. Juang, C.-I. Chen, and K.-L. Tsang, "*A High Performance Double-crystal Monochromator Soft X-ray Beamline*", J. Synchrotron Rad. **5**, 664 (1998).

17B1 W20 - X-ray Scattering

1. K. L. Tsang, C.-H. Lee, Y. C. Jean, T.-E. Dann, J. R. Chen, K. L. D'Amico, and T. Oversluizen, "*Wiggler X-ray Beamlines at Synchrotron Radiation Research Center*", Rev. Sci. Instrum. **66**, 1812 (1995).

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http://140.110.203.42/manage/fck_fileimage/file/bldoc/17CW20DCM.htm

18B1 BM - LIGA

End station for Microstructure Fabrication:

http://www.nsrrc.org.tw/eng/science/research_7_2_Micromachining_Station.html

18B2

1. C. H. Ko, B. Y. Shew, M. C. Liang, S. C. Hsu, C. C. Lui, and C. K. Lo, "*Micrograting Fabricated by Deep x-ray Lithography for Optical Communications*", Optical Engineering **46(4)**, 048001 (2007).

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19A

1. S. C. Chung, C. I. Chen, P. C. Tseng, H. F. Lin, T. E. Dann, Y. F. Song, L. R. Huang, C. C. Chen, J. M. Chuang, K. L. Tsang, and C. N. Chang, "Soft X-ray Spectroscopy Beamline: 6 m High Energy Spherical Grating Monochromator Beamline at SRRC: Optical Design and First Performance Tests", *Rev. Sci. Instrum.* **66**, 1655 (1995).

20A1 BM - (H-SGM) XAS

1. S. C. Chung, C. I. Chen, P. C. Tseng, H. F. Lin, T. E. Dann, Y. F. Song, L. R. Huang, C. C. Chen, J. M. Chuang, K. L. Tsang, and C. N. Chang, "Soft X-ray Spectroscopy Beamline: 6 m High Energy Spherical Grating Monochromator Beamline at SRRC: Optical Design and First Performance Tests", *Rev. Sci. Instrum.* **66**, 1655 (1995).

20B

1. C. H. Lee, C. S. Hwang, P. K. Tseng, H. C. Tseng, K. L. Yu, W. C. Su, J. R. Chen, T. L. Lin, and S. L. Chang, "The Commissioning of a Low Cost Multipurpose Beamline at SRRC", *J. Synchrotron Rad.* **5**, 512 (1998).
2. C. S. Hwang, F. Y. Lin, C. H. Lee, K. L. Yu, C. H. Hsieh, P. K. Tseng, J. T. Lin, and W. F. Pong, "A Low Cost and Flexible Double Crystal Monochromator for X-ray Beamline", *Rev. Sci. Instrum.* **69**, 1230 (1998).

21A1 U9 - (White Light) Chemical Dynamics (PRT 50%)

1. S.-H. Lee, Y.-Y. Lee, Y. T. Lee, and X. Yang, "Photodissociation Dynamics of Propene at 157.6 nm: Kinetic Energy Distributions and Branching ratios", *J. Chem. Phys.* **119**, 827 (2003).
2. I.-C. Lu, W.-J. Huang, C. Chaudhuri, W.-K. Chen, and S.-H. Lee, "Development of a Stable Source of Atomic Oxygen with a Pulsed High-voltage Discharge and Its Application to Crossed-beam Reactions", *Rev. Sci. Instrum.* **78**, 083103 (2007).
3. S.-H. Lee, W.-K. Chen, and W.-J. Huang, "Exploring the Dynamics of Reactions of Oxygen Atoms in States 3P and 1D with Ethene at Collision Energy 3 kcal mol $^{-1}$ ", *J. Chem. Phys.* **130**, 054301 (2009).

21A2 U9 - (White Light) Photochemistry

1. Y.-J. Wu, C. Y. R. Wu, S.-L. Chou, M.-Y. Lin, H.-C. Lu, J.-I. Lo, and B.-M. Cheng, "Spectra and Photolysis of Pure Nitrogen and of Methane Dispersed in Solid Nitrogen with VUV Light", *Astrophys. J.* **746**, 175 (11pp) (2012).
2. Y.-J. Wu, H.-F. Chen, S.-L. Chou, M.-Y. Lin, H.-C. Lu, H.-K. Chen, and B.-M. Cheng, "Photolysis of Ethyne in Solid Neon and the Synthesis of Long-chain Carbon Clusters Driven with VUV Light", *Astrophys. J.* **721**, 856 (2010).
3. Y.-J. Wu, M.-Y. Lin, B.-M. Cheng, H.-F. Chen, and Y.-P. Lee, "Infrared Absorption Spectra of Vinyl Radicals Isolated in Solid Ne", *J. Chem. Phys.* **128**, 204509 (2008).

21B1 U9 - (CGM) Angle-Resolved UPS, Gas Phase

1. Y.-F. Song *et al.*, "Design of an Ultra-high Resolution and High Flux Cylindrical Grating Monochromator Undulator Beamline" *Nucl. Instrum. Methods A.* **467** 496 (2001).
2. P. C. Tseng, C. C. Chen, T. E. Dann, S. C. Chung, C. T. Chen, and K. L. Tsang, *J. Synchrotron Rad.* **5** 723 (1998).

21B2 U9 - Gas Phase

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23A1 IASW - Small Angle X-ray Scattering

1. U. Jeng, C.-H. Su, C.-J. Su, K. F. Liao, W.-T. Chuang, Y.-H. Lai, J.-W. Chang, Y.-J. Chen, *et al.*, *J. Appl. Cryst* **43**, 110 (2010).

24A1 BM - (WR-SGM) XPS, UPS

1. P. C. Tseng, C. C. Chen, T. E. Dann, S. C. Chung, C. T. Chen, and K. L. Tsang, *J. Synchrotron Rad.* **5** 723 (1998).
2. L. J. Lai, P. C. Tseng, Y. W. Yang, S. C. Chung, Y. F. Song, N. F. Cheng, C. C. Chen, C. T. Chen, and K. L. Tsang, “*Current Status of the Wide-range (10-1,500 eV) Spherical Grating Monochromator Beamline at SRRC*”, *Nuclear Instruments and Methods in Physics Research A* **467**, 586 (2001).

SP12B1 BM - Materials X-ray Study

1. M.-T. Tang, T.-E. Dann, C.-C. Chen, K.-L. Tsang, and K.-S. Liang. “*Conceptual Design Report of the BL12 Bending Magnet Beamline at SPring-8*”, SRRC RBM-IM/98-03 (1998).
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3. 陳政祺, 湯茂竹, 但唐諤, 蔡永強, 曾金榮, “*台灣光束線 BL12B2(SPring-8) 運轉模式概述*”, SRRC RBM-IM/00-02, (2000).
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SP12B2 BM - Protein X-ray Crystallography

6. M.-T. Tang, T.-E. Dann, C.-C. Chen, K.-L. Tsang, and K.-S. Liang. “*Conceptual Design Report of the BL12 Bending Magnet Beamline at SPring-8*”, SRRC RBM-IM/98-03, (1998).
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9. M.-T. Tang, T. E. Dann, C. C. Chen, K. L. Tsang, C. T. Chen, and K. S. Liang, “*Design of the Taiwan Contract Bending Magnet Beamline at SPring-8*”, *Nucl. Instrum. Meth.* **A467**, 719, (2001).
10. M.-T. Tang, Y.-C. Jean, Y.-S. Huang, C.-H. Chao, C.-J. Chen, and C.-N. Hsu, “*Operational Manual of the Protein Crystallography Station at SPring-8 Taiwan Beamline BL12B2*”, SRRC Internal Technical Report (2002).

SP12U1 U3.2 - Inelastic X-ray Scattering