

Appendix 4

List of Publications 1997

Accelerator group

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Journals

A. Mizuno, N. Nakamura, H. Yoshikawa, T. Hori, S. Suzuki, K. Yanagida, T. Taniuchi, H. Sakaki, H. Yokomizo

“New Alignment Method of Helmholtz Coil”
to be published in J. Synchrotron Rad.

H. Tanaka, K. Soutome and M. Hara

“A Method to Provide Magnet-Free Long Straight Section in Low-Emittance Synchrotron Radiation Sources”

J. Synchrotron Rad. 4 (1997) 47-53.

E. Ego, M. Hara, Y. Kawashima, Y. Ohashi, T. Ohshima, H. Suzuki, I. Takeshita and H. Yonehara
“Suppression of the coupled-bunch instability in the SPring-8 storage ring”

Nucl. Instr. and Meth. A400 (1997) 195-212.

M. Hara, H. Ego, Y. Kawashima, Y. Ohashi, T. Ohshima, and T. Takashima

“RF System of the SPring-8 Storage Ring”
to be published in J. Synchrotron Rad.

M. Hara, T. Nakamura and T. Ohshima

“A Ripple Effect of a Klystron Power Supply on Synchrotron Oscillation”

to be published in Particle Accelerators.

A. Ando, S. Daté, M.G. Fedurin, M. Hara, H. Kamitsubo, A.V. Kiselev, G.N. Kulipanov, N. Kumagai, N.A. Mezentsev, Y. Miyahara, T. Nakamura,

H. Ohkuma, V.A. Shkaruba, A.N. Skrinsky, K. Soutome, M. Takao and H. Tanaka

“Proposal of a High Field Superconducting Wiggler for Slow Positron Source at SPring-8”
to be published in J. Synchrotron Rad.

Y. Shoji, A. Ando, H. Tanaka and M. Takao
“Fundamental Restriction to the Isochronous Ring FEL” Nucl. Inst. and Meth A390 (1997) 417.

K. Watanabe, T. Hara and H. Ohkuma

“Vacuum System for the SPring-8 Storage Ring”
Journal of the Vacuum Society of Japan, Vol.40, No.11
(1997) 861 (in Japanese).

T. Bizen, T. Shimada, M. Takao, Y. Hiramatsu and Y. Miyahara

“Design of Local Bump Feedback System for a Variably Polarizing Undulator”
to be published in J. Synchrotron Rad.

N. Tsukino, T. Kawai, M. Kawai and Y. Miyahara
“Design Study of X-ray Source Using Laser Induced Plasma Undulator”
to be published in J. Synchrotron Rad.

Proceedings and others

H. Sakaki, H. Yoshikawa, T. Asaka, T. Hori, Y. Itoh, A. Kuba, A. Mizuno, S. Suzuki, T. Taniuchi, K. Yanagida and H. Yokomizo

“Commissioning of SPring-8 Linac Control System”
to be published in Proc. of the 1997 Particle Accelerator Conference, Vancouver, 1997.

T. Asaka, T. Hori, Y. Itoh, T. Kobayashi, A. Kuba, A. Mizuno, H. Sakaki, S. Suzuki, T. Taniuchi, K. Yanagida, H. Yoshikawa and H. Yokomizo

“Performance of Electron Gun for SPring-8 Linac”
to be published in Proc. of the 1997 Particle Accelerator Conference, Vancouver, 1997.

K. Yanagida, S. Suzuki, T. Taniuchi, H. Yoshikawa, A. Mizuno, H. Abe, T. Hori, H. Sakaki, T. Asaka and H. Yokomizo

“Bunch Compression and Beam Transport for SPring-8 SASE”

Proc. of Workshop on Single Pass High Gain FELs starting from Noise, Aiming at Coherent X-rays, Garda Lake, Italy, 1997, AIP Conf. Proc. 413 (1997) 299.

S. Suzuki, H. Abe, T. Asaka, T. Hori, Y. Itoh, A. Kuba, A. Mizuno, H. Sakaki, T. Taniuchi, K. Yanagida, H. Yoshikawa and H. Yokomizo

“Overview of SPring-8 Linac Future Plan”
Proc. of Workshop on Single Pass High Gain FELs starting from Noise, Aiming at Coherent X-rays, Garda Lake, Italy, 1997, AIP Conf. Proc. 413 (1997) 121.

T. Taniuchi, H. Yoshikawa, T. Hori, S. Suzuki, K. Yanagida, A. Mizuno, H. Sakaki, T. Asaka, H. Abe and H. Yokomizo

“Design of High Power Model Cavity for RF Gun”
to be published in Proc. of 19th Int. Free Electron Laser Conf., Beijing, 1997.

H. Yokomizo, H. Abe, T. Asaka, T. Hori, A. Mizuno, H. Sakaki, S. Suzuki, T. Taniuchi, K. Yanagida and H. Yoshikawa

“Linac-Based FEL in SPring-8”

to be published in Proc. of 19th Int. Free Electron Laser Conf., Beijing, 1997.

T. Ohnishi, H. Yoshikawa, S. Suzuki, K. Yanagida, T. Hori, H. Sakaki, T. Asaka, H. Akimoto, M. Yamazaki, M. Adachi, S. Nagasawa and H. Yokomizo

“Phase Instability Measurement of the RF Driver System for SPring-8 Linac”

Proc. of 22th Linear Accelerator Meeting in Japan, (1997) 140 (in Japanese).

T. Hori, A. Mizuno, H. Yoshikawa, T. Asaka and H. Yokomizo

“Present Status of 80MW Klystron Modulator for SPring-8 Linac”

Proc. of 22th Linear Accelerator Meeting in Japan, (1997) 143 (in Japanese).

H. Akimoto, H. Sakaki, H. Yoshikawa, T. Hori, T. Asaka, A. Kuba and H. Yokomizo

“Clear up Causes of Beam Energy(E , ΔE) Drift Using the Regression Analysis for SPring-8 Linac”

Proc. of 22th Linear Accelerator Meeting in Japan, (1997) 181 (in Japanese).

T. Asaka, H. Abe, H. Akimoto, T. Hori, Y. Ishikawa, Y. Itoh, A. Kuba, A. Mizuno, S. Nagasawa, T. Ohnishi, H. Sakaki, S. Suzuki, T. Taniuchi, M. Yamazaki, K. Yanagida, H. Yoshikawa and H. Yokomizo

“Low Jitter Timing System for SPring-8 Linac”

Proc. of 22th Linear Accelerator Meeting in Japan, (1997) 240 (in Japanese).

T. Taniuchi, K. Yanagida, S. Suzuki, A. Mizuno, H. Yoshikawa, T. Hori, T. Asaka and H. Yokomizo

“Photocathode RF Gun Study for SPring-8 Linac”

Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 203.

A. Mizuno, H. Abe, H. Yoshikawa, K. Yanagida, S. Matsui, S. Daté, S. Suzuki, T. Asaka, T. Taniuchi, T. Tajima and H. Yokomizo

“Studies of Laser-Beam Interaction at the SPring-8 Linac”

Proc. of 11th Symp. on Accelerator Science and

Technology, Harima Science Garden City, Japan (1997)

311.

K. Yanagida, S. Suzuki, A. Mizuno, T. Taniuchi, H. Yoshikawa, H. Abe, T. Hori, T. Asaka, H. Sakaki, A. Kuba and H. Yokomizo

“Beam Transport for SPring-8 Linac Future Plan”

Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 528.

H. Sakaki, H. Yoshikawa, H. Yokomizo, T. Sogo, K. Kinoshita and N. Adachi

“Design of Automatic Beam Transport System at SPring-8 LINAC”

to be published in Proc. of Int. Conf. on Accel. and Large Exp. Phys. Control Systems, Beijing, 1997.

H. Suzuki, Y. Kawashima, N. Tani, N. Hosoda, Y. Ohashi, T. Ohshima, H. Ego, M. Hara and H. Yonehara “Timing System of SPring-8”

Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 80.

H. Abe, T. Aoki, K. Fukami, S. Hayashi, N. Hosoda, T. Kaneta, S. Ohtsuchi, K. Okanishi, Y. Sasaki, H. Suzuki, N. Tani, M. Tanimoto, H. Yokomizo and H. Yonehara “Magnetic Leakage Shield of Septum Magnet for SPring-8 Synchrotron”

Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 405.

T. Ohshima, H. Ego, M. Hara, N. Hosoda, Y. Kawashima, Y. Ohashi, H. Suzuki, T. Takashima and H. Yonehara

“RF System for SPring-8 Storage Ring at the Commissioning”

Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 95.

T. Aoki, H. Suzuki, N. Tani, K. Fukami, N. Hosoda, T. Kobayashi, S. Hayashi, M. Tanimoto, S. Ohtsuchi, K. Okanishi, T. Sasaki and H. Yonehara

“Beam Diagnostics for Beam Commissioning of SPring-8 Synchrotron”

Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 246.

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N. Tani, N. Hosoda, H. Suzuki, T. Aoki, K. Fukami, T. Kobayashi, S. Hayashi, M. Tanimoto, S. Ohtsuchi, K. Maeda, K. Okanishi, T. Sasaki and H. Yonehara

“Control System for Beam Commissioning of the SPring-8 Synchrotron”

Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 467.

T. Kobayashi, K. Yanagida, T. Aoki, H. Yonehara and H. Yokomizo

“Beam Monitors for SPring-8 Injector Accelerators”

Proc. of Application of Accelerators in Research and Industry (1997) 761.

K. Fukami, H. Yonehara, S. Ohtsuchi, M. Tanimoto, H. Tanaka, H. Suzuki, T. Aoki, N. Tani, N. Hosoda, S. Hayashi, Y. Hirata, T. Nagafuchi, N. Suetake, Y. Yoshiwara and H. Itoh

“Magnet Alignment of SPring-8 Booster Synchrotron”

Proc. of Fifth International Workshop on Accelerator Alignment, ANL, 1997.

M. Hara

“Generation of Synchrotron Radiation and its Application”

Bulletin of a society for Safety and Health in DAI-ICHI Hospital, No94 (1997) 9-26.

M. Hara, H. Ego, Y. Kawashima, Y. Ohashi, T. Ohshima and T. Takashima

“RF Stations of the SPring-8 Storage Ring”

to be published in Proc. of the 1997 Particle Accelerator Conference, Vancouver, 1997.

M. Hara

“A Report on PAC'97”

SPring-8 Information Vol.2 No.4 (1997) 22-24.

M. Hara, T. Nakamura and T. Ohshima

“Coherent Synchrotron Oscillation Excited by a Ripple of a Klystron Power Supply”

Proc. of the International Workshop on Multibunch Instabilities in Future Electron and Positron Accelerators, Tsukuba, Japan, 15-18 July, 1997

H. Ohkuma, S. Daté, K. Kumagai, M. Masaki, T. Masuda, T. Nakamura, J. Ohnishi, T. Ohshima, T. Shimada, K. Soutome, S. Takano, H. Tanaka, M. Takao, K. Tamura, K. Tsumaki, and N. Kumagai
“Commissioning of the SPring-8 Storage Ring”

Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 62.

M. Takao, S. Daté, K. Kumagai, M. Masaki, T. Masuda, T. Nakamura, H. Ohkuma, J. Ohnishi, T. Ohshima, T. Shimada, K. Soutome, S. Takano, H. Tanaka, K. Tsumaki, and N. Kumagai

“Operation Control System for the Storage Ring of SPring-8”

Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 344.

H. Tanaka, S. Daté, K. Kumagai, M. Masaki, T. Masuda, T. Nakamura, H. Ohkuma, J. Ohnishi, T. Ohshima, T. Shimada, K. Soutome, S. Takano, M. Takao, K. Tsumaki, and N. Kumagai

“Application Software for Orbit Correction of SPring-8 Storage Ring”

Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 461.

H. Ohkuma, K. Watanabe, H. Saeki, M. Masaki, Y. Suzuki, Y. Taniuchi, T. Noda and M. Maeno

“Performance of the SPring-8 Storage Ring Vacuum System”

Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 359.

M. Masaki and SR Commissioning Group

“A Method of Beam-Based Calibration for Beam Position Monitor”

Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 83.

T. Nakamura

“Estimation of Beam Instabilities and Its Cure in the SPring-8 Storage Ring”

Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 490.

H. Tanaka, H. Ohkuma and SR Operation Group

“Commissioning of the SPring-8 Storage Ring”

Beam Dynamics Newsletter, No.14 (1997) 21-23.

Accelerator group

Y. Miyahara

“Possibility of X-ray Free Electron Laser with Single Crystal Optical Resonator for Bragg Reflection”
to be published in Proc. of the 1997 Particle Accelerator Conference, Vancouver, 1997.

Y. Miyahara

“X-ray FEL in a Small Emittance Storage Ring”
Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 525.

S. Matsui, C. Zhang, K. Tsumaki J. Ohnishi, K. Hasegawa, Y. Sasaki, X. Ouyang, Y. Chida and Y. Okada
“Magnet Alignment Results of the SPring-8 Storage Ring”
Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 44.

H. Takebe, J. Ohnishi, K. Kumagai, K. Tsumaki and N. Kumagai

“Operation of the SPring-8 SR Main Magnet Power Supplies and Control System”
Proc. of 11th Symp. on Accelerator Science and Technology, Harima Science Garden City, Japan (1997) 395.

R. Tanaka, T. Fukui, K. Kobayashi, T. Masuda, A. Taketani, T. Wada and A. Yamashita
“The first operation of control system at the SPring-8 storage ring”
to be published in Proc. of Int. Conf. on Accel. and Large Exp. Phys. Control Systems, Beijing, China, 1997.

A. Taketani, R. Tanaka, T. Fukui, K. Kobayashi, T. Masuda, T. Ohshima, T. Wada and A. Yamashita
“Medium-speed feedback software based on the existing control system”
to be published in Proc. of Int. Conf. on Accel. and Large Exp. Phys. Control Systems, Beijing, China, 1997.

A. Taketani, R. Tanaka, T. Fukui, K. Kobayashi, T. Masuda, T. Wada and A. Yamashita
“Data Acquisition System with Database at the SPring-8 Storage Ring”
to be published in Proc. of Int. Conf. on Accel. and Large Exp. Phys. Control Systems, Beijing, China, 1997.

T. Fukui, R. Tanaka, K. Kobayashi, T. Masuda, A. Taketani, T. Wada and A. Yamashita

“Design and performance of the network system for the storage ring control at SPring-8”
to be published in Proc. of Int. Conf. on Accel. and Large Exp. Phys. Control Systems, Beijing, China, 1997.

A. Yamashita, R. Tanaka, T. Fukui, K. Kobayashi, T. Masuda, A. Taketani and T. Wada

“The database system for the SPring-8 storage ring control”
to be published in Proc. of Int. Conf. on Accel. and Large Exp. Phys. Control Systems, Beijing, China, 1997.

A. Yamashita, R. Tanaka, T. Fukui, K. Kobayashi, T. Masuda, A. Taketani and T. Wada

“The Alarm System for the SPring-8 Storage Ring”
to be published in Proc. of Int. Conf. on Accel. and Large Exp. Phys. Control Systems, Beijing, China, 1997.

Experimental Facility group

Experimental Facility group

Journals

T. Taniguchi, T. Sato, W. Utsumi, T. Kikegawa, and O. Shimomura

"Effect of nonhydrostaticity on the pressure induced phase transformation of rhombohedral boron nitride"
Appl.Phys.Lett.70(1997) 2392.

W. Sciani, A. Lepine-Szily, R. Lichtenthaler F.P. Fachini, L.C. Gomes, G.F. Lima, M.M. Obuti, J.M. Oliveira Jr., A.C.C. Villari

"The 12C+24Mg elastic scattering: An example of anomalous transparency at Coulomb barrier energies"
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R. Roux, M.E. Coutrie, T. Hara, R.J. Bakker, B. Visentin, M. Billardon, J. Roux

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Meth Phys Res A393(1997) 33.

M. Marsi, M.E. Coutrie, L. Nahon, D. Garzella, T. Hara, R. Bakker, M. Billardon, A. Delboulbe, G. Indlekofer, A. Talebibrahimi

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Appl Phys Lett 70(1997) 895.

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"Stimulated etching of Si(100) by Cl₂ molecular beams with hyperthermal translational energies"
J. Appl. Phys. 82(1997) 3137.

Y. Katayama, M. Mezouar, J.P. Itie, J.M. Besson, G.Syfosse, P.Le Fevre, A.Di Cicco

"High-Pressure High-Temperature XAFS Investigation on HgTe"
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K.Yaoita, Y. Katayama, K. Tsuji, T. Kikegawa, O. Shimomura

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Reviews of Scientific Instruments, 68(1997) 2106.

M. Ishii, S. Iwai, H. Kawata, T. Ueki, Y. Aoyagi
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M. Ishii, S. Iwai, T. Ueki, Y. Aoyagi

"Reflection-wavelength control method for layer-by-layer controlled x-ray multilayer mirrors"
Appl. Opt. 36(1997) 2152.

M. Ishii, S. Iwai, T. Ueki, Y. Aoyagi

"Observation and control of surface morphology of AlP grown by atomic layer epitaxy"
Appl. Phys. Lett. 71(1997) 1044.

Proceedings and others

T. Tanaka

"Figure-8 Undulator"

J. Japan. Society SR Research 9(1997) 251. (in Japanese)

W. Utsumi

"The world of extreme condition probed with synchrotron radiation -In situ observation of diamond formation process-"

Current status of atomic energy research(1997) 62. (in Japanese)

A.Yokoya

"Spectroscopy on Biological Systems Using Synchrotron Soft X-rays"

J. Japan. Society SR Research 10(1997) 392. (in Japanese)

Y. Katayama

"Density Measurements under High Temperature and High Pressure by Means of X-ray Absorption"

The Review of high Pressure Science and Technology 6(1997) 216. (in Japanese)

T. Tasaki, T. Ebisawa, M. Hino, T. Kawai, T. Akiyoshi,

Y. Otake, N. Achiwa, T. Kanaya, and D. Yamazaki

"Development of a Novel Spin Echo Spectrometer Taking Advantage of Quantum Neutron Precession"
Proc. of the Scientific Meeting of the Research Reactor Institute, Kyoto University 31(1997) 213.

T. Ebisawa, S. Tasaki, T. Kawai, M. Hino, D. Yamazaki, N. Achiwa, Y. Otake, H. Funahashi, and T. Akiyoshi

"A New Spin Interferometer for Cold Neutron Interferometry"

Proc. of the Scientific Meeting of the Research Reactor Institute, Kyoto University 31(1997) 251.