

KASOKUKI

Journal of the Particle Accelerator Society of Japan, Vol.2, No.1, 2005

CONTENTS

Editorial	Yasuo HIRAO	1
Reviews		
Looking-Back on the Development of High Energy Accelerators in Japan —From the INS-ES Construction to the Birth of KEK-PS (II)—	Yoshitaka KIMURA	2
Coherent Synchrotron Radiation	Toshiharu TAKAHASHI	11
Present Status of Particle Accelerators in Japan (Part Two)	Seiichi TAGAWA	20
Articles		
Hamiltonian Formulation of Higher Order Dispersion and Chromaticity of Circular Accelerators	Masaru TAKAO	25
On the Quasi-Monoenergetic Electron Beam Generation in the Laser Wakefield Acceleration	S. V. Bulanov and Toshiki TAJIMA	35
Forum		
Accelerators for Solid State Physics	Akihito KAKIZAKI	42
Development of the JAERI Super-conducting Energy Recovery Linac (ERL) Based Free-Electron Lasers (FELs)	Eisuke J. MINEHARA	48
Construction of a Synchrotron Radiation Research Laboratory in Thailand	Takehiko ISHII	54
Cyclotrons 2004	Akira GOTO	58
The 100 MW Pulsed Klystron	Hiroshi YONEZAWA, Setsuo MIYAKE and Yoshihisa OKUBO	63
Education		
Training System for Engineers at KEK and a Personal Perspective	Norihiko UJIIE	71
Tales of Accelerators		
An Unofficial History of Japanese Accelerators (Part Three)	Makoto INOUE	84
Accelerators Large and Small		
Requirements for Compact Accelerator	Mitsuru UESAKA	93
Status of Radiation and Accelerator Facilities in University —Report from Osaka Prefecture University—	Syuichi OKUDA	96
Accelerators in Civil Life		
Irradiation Applications of Electron Beam Accelerator	Yasuyuki AIKAWA	99
International Collaboration		
US-Japan Collaboration in High Energy Physics—Personal Reminiscences—	Akihiro MAKI	102
Research Interchange in Asia—A Report from an Actual Place	Yoshitaka KAWASHIMA	109
Community News		
PASJ Announcements		
Notice Board		

Editorial Committee ANDO Ainosuke, chairperson
OHKUMA Haruo, GOTO Akira, SATO Kiyokazu, SHIDARA Tetsuo,
TAKATA Koji, NAKANISHI Tsutomu, NODA Kohji, HATTORI Toshiyuki,
HAMA Hiroyuki, HORI Toshitada, MIZUMOTO Motoharu

The Journal is published quarterly by
Particle Accelerator Society of Japan, KIHARA Motohiro, President.
c/o Secretariat, WORDS Publishing House,
2-62-8-507 Higashi Ikebukuro, Toshima-ku, Tokyo 170-0013, Japan