## **KASOKUKI**

Journal of the Particle Accelerator Society of Japan, Vol.1, No.2, 2004

## **CONTENTS**

Reviews		
Sychrotron Oscillation in Cyclotrons—Nonlinear Acceler	ation Theory for Cyclotrons— Kenji SATO	79
Articles		
Measurement of the Betatron Oscillation in a Phase Space near the		
Vertical Third-order Resonance Tsu	ikasa MIYAJIMA and Yukinori KOBAYASHI	98
Forum		
500 MHz Klystrons	Koji TAKATA	109
Accelerators for Nuclear Physics	Kenichi IMAI	119
Challenging Ultimate Luminosity at KEKB	Shin-ichi KUROKAWA	125
Experience of My Research Life in Japan	Chao ZHANG	137
Transition Energy, It Was a Hard Barrier!	Takao IEIRI	141
Education		
Graduate Education in the Accelerator Science	Kohji HIRATA	143
Tales of Accelerators		
An Unofficial History of Japanese Accelerators (Part on	e) Makoto INOUE	149
Rapid Communication		
Monoenergetic Electron Beam Generated from Laser Plasma Accelerator, World First		
Kazuyosh	i KOYAMA, Eisuke MIURA, Susumu KATO,	
Naoaki SAIT	O, Shinichi MASUDA ane Masahiro ADACHI	158
50 mA of Carbon Beam Have Been Accelerated Successfully by RFQ Linac Using Direct		
Injection Scheme with Laser Ion Source		
T. HATTORI, M. C	OKAMURA, H. KASHIWAGI and Y. IWATA	162
Particle Accelerators in Japan (Continued)		165
Meeting Reports		
1st Annual Meeting of PASJ, Aug, 4~6, 2004, Funabashi, Nihon University		
Topics on LINAC's	Ken HAYAKAWA	175
Topics on Ring's	Koji NODA	176
LINAC 2004	Yoshishige YAMAZAKI	177
Community News		
Technology Choice for Future Linear Collider	Fumihiko TAKASAKI	179
PASJ Announcements		

**Editorial Committee** 

**Notice Board** 

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