

ERLAN BATYRBEKOV	673	Converting nuclear energy into the energy of coherent optical radiation
R.P. SHARMA AND RAM KISHOR SINGH	689	Stimulated Brillouin backscattering of filamented hollow Gaussian beams
E.N. ABDULLIN, N.G. IVANOV, V.F. LOSEV, AND A.V. MOROZOV	697	Generation of a large cross-section electron beam in the vacuum diode with rod current returns
Y. TENG, T.Z. LIANG, AND J. SUN	703	Generation of beating wave by multi-coaxial relativistic backward wave oscillator
LEIF HOLMLID	715	Direct observation of particles with energy >10 MeV/u from laser-induced processes with energy gain in ultra-dense deuterium
J. POZIMSKI AND M. ASLANINEJAD	723	Gabor lenses for capture and energy selection of laser driven ion beams in cancer treatment
L. CHEN, F. WANG, AND J.Y. WU	735	Theoretical analysis and numerical simulation of laser driven multi-layered flyer
VED PRAKASH, RUBY GUPTA, SURESH C. SHARMA, AND VIJAYSHRI	747	Excitation of lower hybrid wave by an ion beam in magnetized plasma
VIJAY SINGH	753	Modulation instability of two laser beams in plasma
JINYONG FANG, HUIJUN HUANG, JING SUN, ZHIQIANG ZHANG, TIEZHU LIANG, WENHUA HUANG, AND PUMING HUANG	759	A synthesizer for gigawatt class high power microwaves—ERRATUM

LASER AND PARTICLE BEAMS

Pulse Power, High Energy Densities, Hot Dense Matter, and Warm Dense Matter

Volume 31

December 2013

Number 4

CONTENTS

- DIETER H.H. HOFFMANN 551 Where and whither fusion
- MAGDALENA SAWICKA, MARTIN DIVOKY, ANTONIO LUCIANETTI, AND TOMAS MOCEK 553 Effect of amplified spontaneous emission and parasitic oscillations on the performance of cryogenically-cooled slab amplifiers
- MAN ZHOU, XIANRONG ZOU, SHIYAO WANG, CHUAN CHENG, WANG ZHOU, XIE MA, JIANXIONG SHAO, AND XIMENG CHEN 561 Classical calculation of multiple-ionization cross-sections of noble gases near Bragg peak energies
- JINYONG FANG, HUIJUN HUANG, JING SUN, ZHIQIANG ZHANG, TIEZHU LIANG, WENHUA HUANG, AND PUMING HUANG 567 A synthesizer for gigawatt class high power microwaves
- YUQIU GU, JINQING YU, WEIMIN ZHOU, FENGJUAN WU, JIAN WANG, HONGJIE LIU, LEIFENG CAO, AND BAOHAN ZHANG 579 Collimation of hot electron beams by external field from magnetic-flux compression
- PALLAVI JHA, AKANKSHA SAROCH, AND ROHIT KUMAR MISHRA 583 Wakefield generation and electron acceleration by intense super-Gaussian laser pulses propagating in plasma
- SHIXIA LUAN, WEI YU, JINGWEI WANG, MINGYANG YU, SUMING WENG, MASAKATSU MURAKAMI, JINGWEI WANG, HAN XU, AND HONGBIN ZHUO 589 Trapping of electromagnetic radiation in self-generated and preformed cavities
- JINQING YU, XIAOLIN JIN, WEIMIN ZHOU, BO ZHANG, ZONGQING ZHAO, LEIFENG CAO, BIN LI, YUQIU GU, RONGXIN ZHAN, AND Z. NAJMUDIN 597 Influence of the initial size of the proton layer in sheath field proton acceleration
- Y.L. PING, X.T. HE, H. ZHANG, B. QIAO, H.B. CAI, AND S.Y. CHEN 607 Gamma-ray source through inverse Compton scattering in a thermal hohlraum
- MAGDI SHOUCRI, JEAN-PIERRE MATTE, AND FRANÇOIS VIDAL 613 Ion acceleration and plasma jets driven by a high intensity laser beam normally incident on thin foils
- ROHIT SHUKLA AND ANURAG SHYAM 627 Low voltage, low energy, and repetitive (4 Hz) operation of a conventional vircator for microwave emission in the range of 4–8 GHz
- N. ZHAVORONKOV, A. ANDREEV, AND K. PLATONOV 635 Sub-femtosecond hard X-ray radiation generated by electron bunches ejected from water jet
- XIN-BING CHENG, JIN-LIANG LIU, AND BAO-LIANG QIAN 643 Application of high speed frame camera on the intense electron beam accelerator: An overview
- L. LANCIA, C. FOURMENT, J. FUCHS, J.-L. FEUGEAS, PH. NICOLAI, S. BASTIANI-CECCOTTI, M. GAUTHIER, S. HULIN, M. NAKATSUTSUMI, M. RABEC-LE-GLOAHEC, J.J. SANTOS, AND G. SCHURTZ 653 Simultaneous measurement of self-generated magnetic fields and electron heat transport in dense plasma
- MIKHAIL E. POVARNITSYN, NIKOLAY E. ANDREEV, PAVEL R. LEVASHOV, KONSTANTIN V. KHISHCHENKO, DMITRY A. KIM, VLADIMIR G. NOVIKOV, AND OLGA N. ROSMEI 663 Laser irradiation of thin films: Effect of energy transformation

Cambridge Journals Online

For further information about this journal please go to the journal website at:

journals.cambridge.org/lpb



CAMBRIDGE
UNIVERSITY PRESS