Yongtao Zhao, Zhanghu Hu, Rui Cheng, Yuyu Wang, Haibo Peng, Alexander Golubev, Xiaoan Zhang, Xia Lu, Dacheng Zhang, Xianming Zhou, Xing Wang, Ge Xu, Jieru Ren, Yongfeng Li, Yu Lei, Yuanbo Sun, Jiangtao Zhao, Tieshan Wang, Younian Wang, and Guoqing Xiao **679** Trends in heavy ion interaction with plasma

Lixia Zeng, Zhongfeng Xu, Yongtao Zhao, Yuyu Wang, Jianguo Wang, Rui Cheng, Xiaoan Zhang, Jieru Ren, Xianming Zhou, Xing Wang, Yu Lei, Yongfeng Li, Yang Yu, Xueliang Liu, Guoqing Xiao, and Fuli Li **707** Contribution from recoiling atoms in secondary electron emission induced by slow highly charged ions from tungsten surface

Yu Zhang, Jinliang Liu, Shiwen Wang, Xuliang Fan, Hongbo Zhang, and Jiahuai Feng **713** Effects of dielectric discontinuity on the dispersion characteristics of the tape helix slow-wave structure with two metal shields—ERRATUM

Zumin Qi, Jun Zhang, Huihuang Zhong, and Zehai Zhang **715** A large-signal theory of bunching in the triaxial klystron amplifier—ERRATUM

https://doi.org/10.1017/S0263034612001036 Published online by Cambridge University Press

LASER AND PARTICLE BEAMS

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

Volume 30 **December 2012** **Number 4**

CONTENTS

Bishnupriya Nayak and S. V. G. Menon	**517**	Thermonuclear burn of DT and DD fuels using three-temperature model: Non-equilibrium effects
X. Y. Guo, W. L. J. Hasi, Z. M. Zhong, C. Y. Jin, D. Y. Lin, W. M. He, and Z. W. Lu	**525**	Research on the SBS mediums used in high peak power laser system and their selection principle
Xin-Bing Cheng, Jin-Liang Liu, Zhi-Qiang Hong, and Bao-Liang Qian	**531**	Operating characteristics of intense electron beam accelerator at different load conditions
Limin Li, L. Chang, L. Zhang, J. Liu, G. Chen, and J. Wen	**541**	Development mechanism of cathode surface plasmas of high current pulsed electron beam sources for microwave irradiation generation
Huan Wang, Lihua Cao, Zongqing Zhao, M. Y. Yu, Yuqiu Gu, and X. T. He	**553**	Fast electron beam with manageable spotsize from laser interaction with the tailored cone-nanolayer target
A.T.T. Mostako and Alika Khare	**559**	Molybdenum thin films via pulsed laser deposited technique for first mirror application
Zumin Qi, Jun Zhang, Huihuang Zhong, and Zehai Zhang	**569**	A large-signal theory of bunching in the triaxial klystron amplifier
K. K. Magesh Kumar and V. K. Tripathi	**575**	Laser wakefield bubble regime acceleration of electrons in a preformed non uniform plasma channel
Alexandre Bonatto, Renato Pakter, Felipe Barbedo Rizzato, and Christian Bonatto	**583**	On the interaction of focused electromagnetic beams and space-charge fields in laser-plasma systems
Alexandru Popa	**591**	Polarization effects in collisions between very intense laser beams and relativistic electrons
Anuraj Panwar, Ashok Kumar, and C. M. Ryu	**605**	Stimulated Raman forward scattering of laser in a pre-formed plasma channel
Yibing Cao, Juntao He, Jiande Zhang, and Junpu Ling	**613**	Experimental verification of a low-impedance transit-time oscillator without foils
V. N. Rai	**621**	Theoretical aspect of enhancement and saturation in emission from laser produced plasma
Kaushik Balakrishnan	**633**	On bubble and spike oscillation in a dusty gas Rayleigh-Taylor instability
Y. Zhang and J.-L. Liu	**639**	Impedance matching condition analysis of the multi-filar tape-helix Blumlein PFL with discontinuous dielectrics
B. Ilyas, A.H. Dogar, S. Ullah, N. Mahmood, and A. Qayyum	**651**	Multiply charged ion emission from laser produced tungsten plasma
Anamika Sharma and V. K. Tripathi	**659**	Relativistic and ponderomotive self-focusing of a laser pulse in magnetized plasma
Cexiang Mei, Yongtao Zhao, Xiaoan Zhang, Jieru Ren, Xianming Zhou, Xing Wang, Yu Lei, Changhui Liang, Yaozong Li, and Guoqing Xiao	**665**	X-ray emission induced by 1.2–3.6 MeV Kr^{13+} ions
Ya Zhang, Yuan-Hong Song, Yong-Tao Zhao, and You-Nian Wang	**671**	Two-dimensional quantum hydrodynamic model for the heating of a solid target using a Gaussian cluster

https://doi.org/10.1017/S0263034612001036 Published online by Cambridge University Press