

CONTENTS

Electron scattering experiments at Chungnam National University <i>H. cho, and Y.S. Chung</i>	1
Angular distribution for elastic scattering of electrons from Ar ⁷⁺ ions <i>A. Danjo</i>	11
Electron-impact excitation cross sections for highly-charged ions <i>T. Kagawa and T. Kawasaki</i>	18
Electron spectra from electron-impact excitation of helium to autoionizing states <i>Y.S. Chung and H. Cho</i>	25
Electron impact cross section measurements related to plasma discharges and material processing <i>H. Tanaka and M. Kitajima</i>	30
Atomic physics experiments using the Tokyo electron beam ion trap <i>N. Nakamura</i>	46
Electron detachment from H ⁻ ions colliding with positive ions - Comparison with Neutral Atoms - <i>T.W. Imai, R.D. Rivarola, P. Fainstein and H. Tawara</i>	55
Monte Carlo calculation of ionization by electron impacts on a rydberg hydrogen atom: Angular distributions of the two outgoing electrons <i>T. Fujimoto</i>	65
Study of atoms and molecules using synchrotron radiation <i>Y. Chung</i>	75
Calculation of direct radiative capture of electrons by atomic ions <i>Y.S. Kim and R.H. Pratt</i>	86
Volumetric recombination processes in detached divertor plasmas <i>N. Ohno, N. Ezumi, D. Nishijima and S. Takamura</i>	91
Excited level populations of Li-like Al ions in low temperature dense recombining plasma <i>T. Kawachi, K. Ando, C. Fujikawa, N. Yamaguchi, T. Hara and Y. Aoyagi</i>	104
Recent results from time- and space-resolved x-ray spectroscopic measurements of Laser Fusion Plasmas <i>K. Fujita, Y. Ochi, I. Niki, M. Heya, H. Shiraga, H. Nishimura, I. Uschmann, R. Butzbach, E. Förster, A. Sunahara, M. Fukao, H. Takabe, T. Kawamura and K. Mima</i>	111

Dynamic plasma screening effects on atomic collisions in Maxwellian and Lorentzian plasmas <i>Y.D. Jung</i>	122
Study of compact x-ray laser pumped by pulse-train YAG laser by using the recombining plasma scheme <i>N. Yamaguchi, T. Hara, T. Ohchi, C. Fujikawa, K. Okasaka and K. Ando</i>	130
Spectroscopic measurement of the ultrashort high intensity laser produced plasmas <i>I.W. Choi and H. Daido</i>	138
Toward the development of ke V X-ray lasers using innershell processes in atoms and ions <i>D.E. Kim</i>	148
Impurity behavior in JT-60U W-shaped divertor <i>H. Kubo</i>	155
Secondary charged particle emissions from metallic and non-metallic surfaces <i>H. Kazumoto and T. Hiroyuki</i>	161
Excitations of cometary molecules by electron and neutral collisions <i>S.J. Kim</i>	167
Agenda	179