

SECTION IV: ATOMIC AND MOLECULAR SCIENCE

Target K Vacancy Production by 2.5 to 25 MeV/u Ar, Kr, and Xe Ions	IV-1
Y. Peng, R. L. Watson, V. Horvat, and A. N. Perumal	
L X Rays Emitted From Multiply Ionized Holmium Atoms.....	IV-3
V. Horvat, R. L. Watson, A. N. Perumal, and Yong Peng	
Scaling Properties of Target Electron Ionization Probability in Near-Central Collisions with Fast Heavy Ions.....	IV-6
V. Horvat, R. L. Watson, A. N. Perumal, and Yong Peng	
Projectile Charge Dependence of Electron Capture and Loss Cross Sections For Uranium Ions in Collisions with Ar	IV-9
A. N. Perumal, K. S. Fruchey, R. L. Watson, V. Horvat, and Y. Peng	
Average Charge of 3.5 MeV/u Uranium Ions in Ar Gas	IV-11
V. Horvat, R. L. Watson, A. N. Perumal, and Yong Peng	
Density Effect of Swift Heavy Ions Passing Through Gaseous and Solid Targets.....	IV-13
A. N. Perumal, K. S. Fruchey, R. L. Watson, V. Horvat, and Y. Peng	
Electron Capture Cross Sections from Ar Atoms to Inner Shells of Ar^{q+} Ions at 10 MeV/u.....	IV-15
A. N. Perumal, V. Horvat, R. L. Watson, and Y. Peng	