

#### **B.5.9. Other Activities--C. D. Lin**

During the last grant period, we have finished a review article entitled “Visualization of Electron Correlations in Doubly and Triply Excited States of Atoms.” This review will be published as a chapter in a monograph, *Photodetachment and Photoionization*, edited by C.Y. Ng, World Scientific. The book is scheduled for publication in early 2000.

During the last grant period we have also completed an article, entitled “Slow and Fast Collisions of Atoms, Ions and Molecules,” which is coauthored with Professor F. Martin of Universidad Autonomona de Madrid, Spain. This article is to appear as a contribution to an Encyclopedia project called *Scattering*, to be published by Academic Press.

Another regular publication is Publication #96, coauthored with J. Yuan. This paper examined the effect of core relaxation in the R-matrix calculation for electron collisions with Ca. The total scattering cross sections show structures near the threshold and this paper examined the origin of these structures.