

Abstract Submitted
for the OSF05 Meeting of
The American Physical Society

Doubly-Excited States of the Be Atom in the MCRRPA LIN-RU WANG, Institute of Atomic and Molecular Sciences Academia Sinica, KEH-NING HUANG, Department of Physics, National Taiwan University, DEPARTMENT OF PHYSICS, NATIONAL TAIWAN UNIVERSITY TEAM, INSTITUTE OF ATOMIC AND MOLECULAR SCIENCES ACADEMIA SINICA TEAM — Photoionization parameters for double-excitation autoionization resonances in neutral beryllium are calculated in the multiconfiguration relativistic random-phase approximation (MCRRPA). Precise energies and widths of all five Rydberg series of low-lying doubly-excited states are given.

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Date submitted: 09 Sep 2005

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