

Abstract Submitted
for the MAR10 Meeting of
The American Physical Society

Calculation for the Work Function of Metal Cluster CHIN-SHENG WU, Yuan Ze University — We use the density functional theory to calculate the electronic structure of small metallic clusters. The charge difference between the electron density of Friedel oscillation and positive background builds up the barrier-work function, which confines the electron gas inside clusters. The exchange correlation potential is also taken into account. The calculations for various metallic densities are performed.

Chin-Sheng Wu
Yuan Ze University

Date submitted: 30 Aug 2009

Electronic form version 1.4