

Evaluation of Cu Phonon Frequency Spectrum Under High Pressure Using Different (EOS)

Zena W. Al – Abady **Adnan M. Al – Sheikh**

*Department of Physics
College of Science
Mosul University*

(Received 15 / 10 / 2009 ; Accepted 10 /5 /2010)

ABSTRACT

In the present work evaluation of effect of high pressure on phonon frequency spectrum for copper has been performed by using different equations of state (EOS) and evaluating lattice vibrations frequencies shift and variations of mode density under high pressure. Variation of Grüneisen parameter under high pressure has been considered in our calculations.

!