

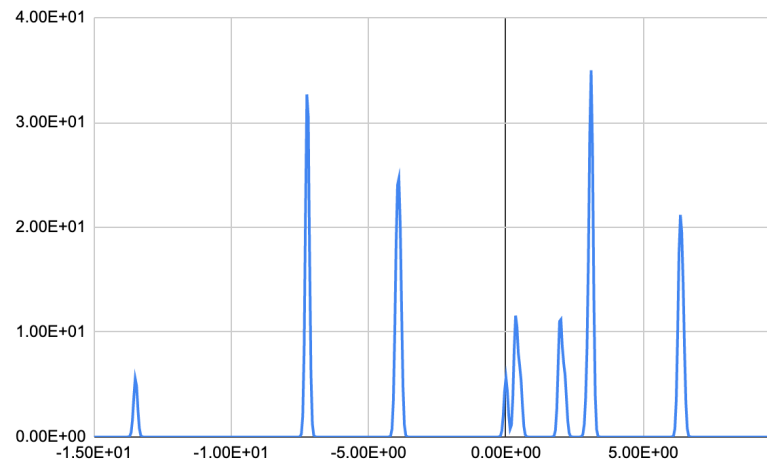
HW 6

Isabella Johansson

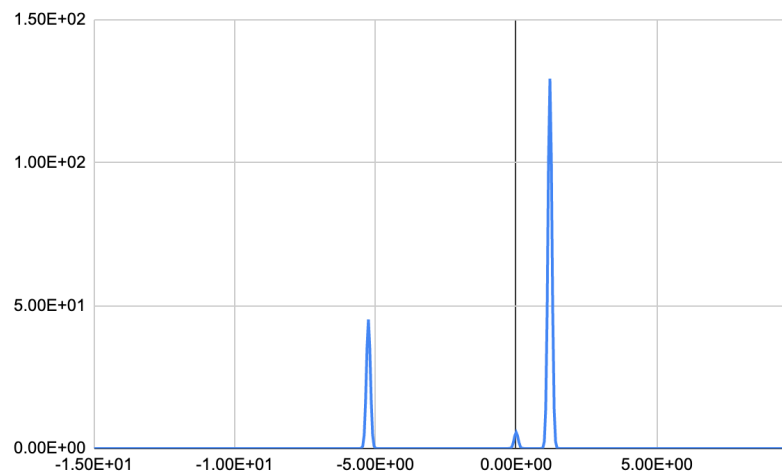
1. See attachments

2.

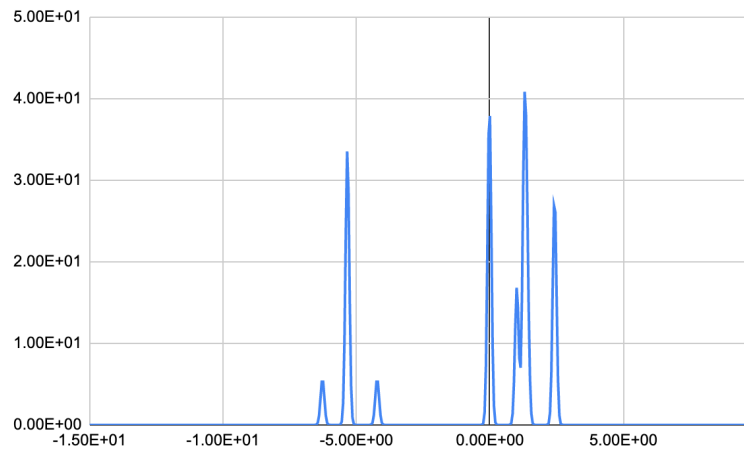
1 x 5.43 angstrom: (1 1 1)



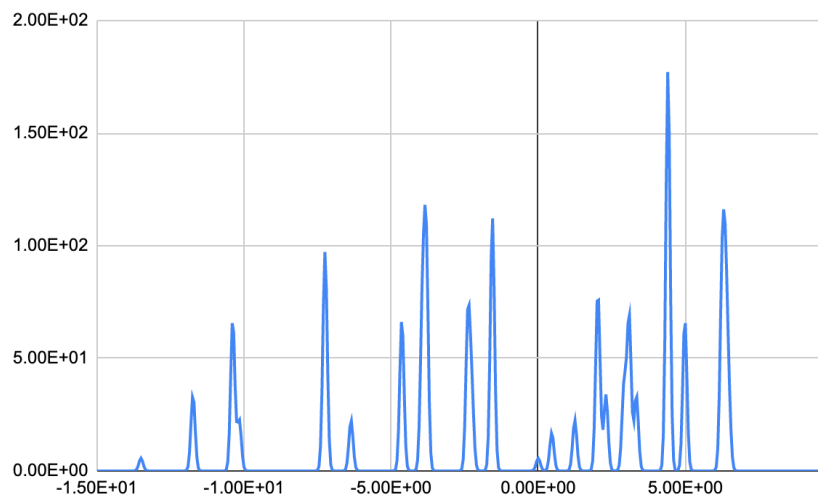
1.8 x 5.43 angstrom:



1.4 x 5.3:



3. 2 2 2, $n_{\text{atom}} = 64$, LCNS = 5.43 Å



higher degeneracy and more eigenvalues

4. $kT = 0.2$ eV $\mu = 8.086707e-01$
 Fermi distribution vs energy (eV)
 2 2 2 lattice

