

このホームページは **Wix.com** を使って作成されました。あなたも無料で作ってみませんか？

[今すぐはじめる](#)



Computational Physics Course

Learn to use software packages

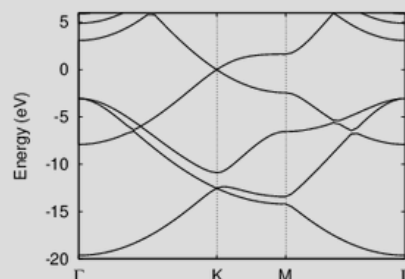
[Home](#)

[More](#)

Theory of Wannier orbital

Let us study the theory of most localized Wannier orbital.

Wannier orbitals was introduced many years ago as a method to interpret a band in terms of a bond. Originally this was done by Fourier transforming the Bloch orbitals with respect to the reciprocal vector. The degree of localization is not sufficient in many cases, requiring thereby stronger localization method. In this context, Prof. Marzari invented an effective procedure.



このホームページは **Wix.com** を使って作成されました。あなたも無料で作ってみませんか？

今すぐはじめる

TABLE I. Hopping amplitudes in eV implied by four different **k**-point sampling densities. Intersublattice and intrasublattice amplitudes are grouped separately. The two models on the left, with 5 and 15 parameters, respectively, provide good compromises between accuracy and simplicity.

For the tight-binding model, please read excellent documents in the web, e.g. the note written by Prof. Fujimori (in Japanese).

次へ



Having learned DFT, let us move to learning program packages. We begin by learning Quantum Espresso

The University of Tokyo

© 2016 by Osamu Sugino

