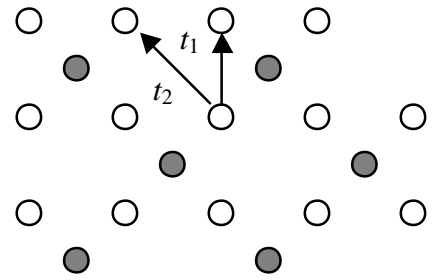


酸素サイト ( ) のみの次近接までを強結合近似で計算してみると

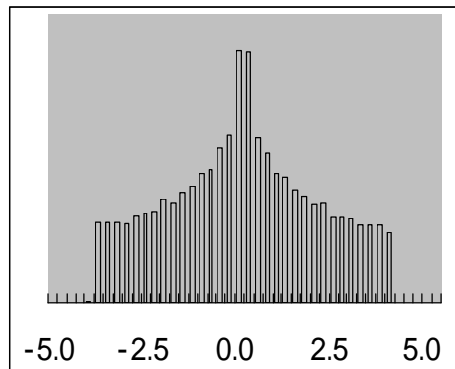
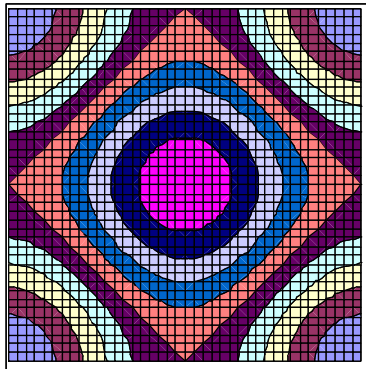
$$e(\vec{k}) = \sum_{\vec{x}=(\pm a,0),(0,\pm a),(\pm a,\pm a)} t(\vec{x}) e^{i\vec{k}\cdot\vec{x}}$$

$$= t_1 \cdot (\cos k_x a + \cos k_y a) + t_2 \cdot (\cos k_x a \cdot e^{ik_y a} + \cos k_x a \cdot e^{-ik_y a})$$

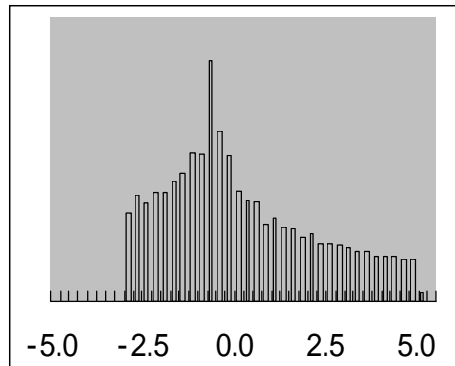
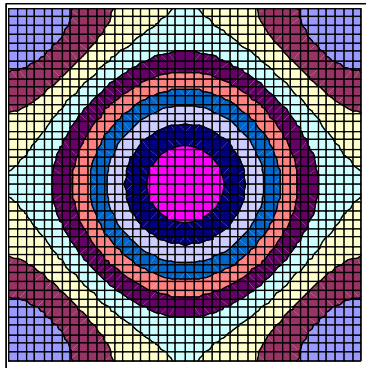


となるので  $t_1, t_2$  の比を変えて見ると

$t_1 : t_2 = 1:0$



$t_1 : t_2 = 1.0:0.2$



$t_1 : t_2 = 1.0: -0.2$

