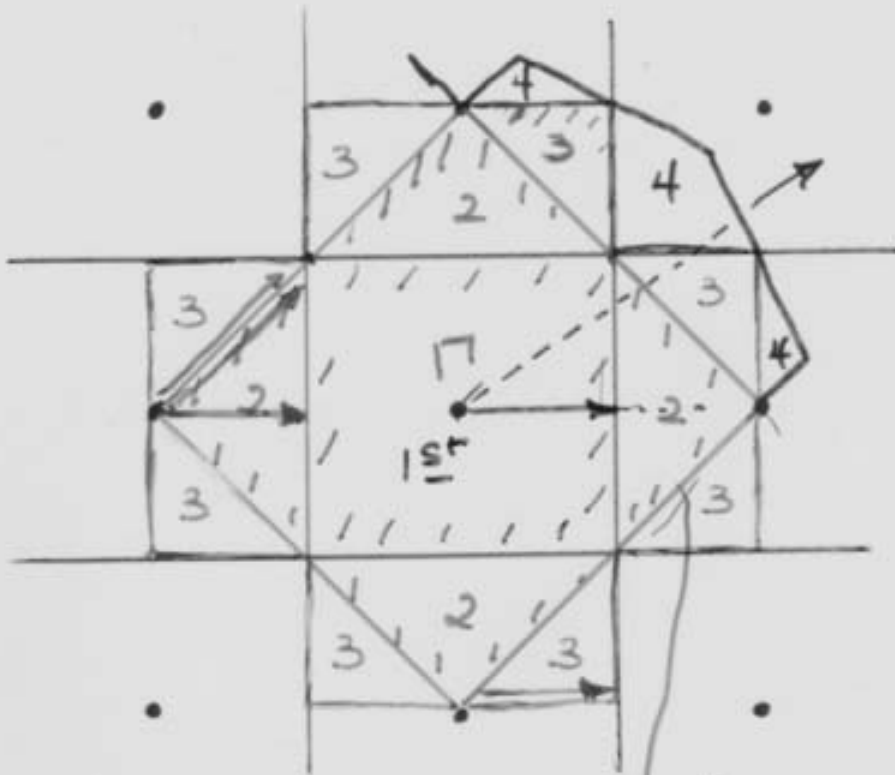
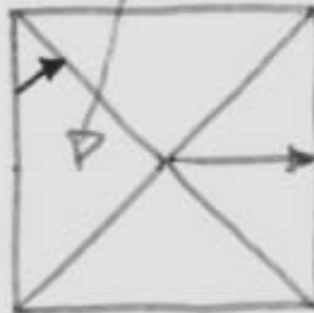
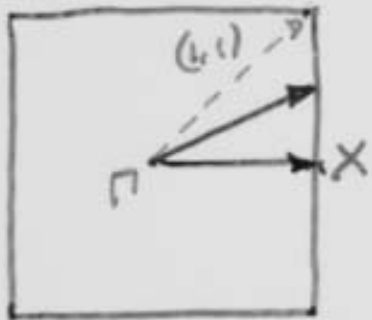


Brillouin Zones.



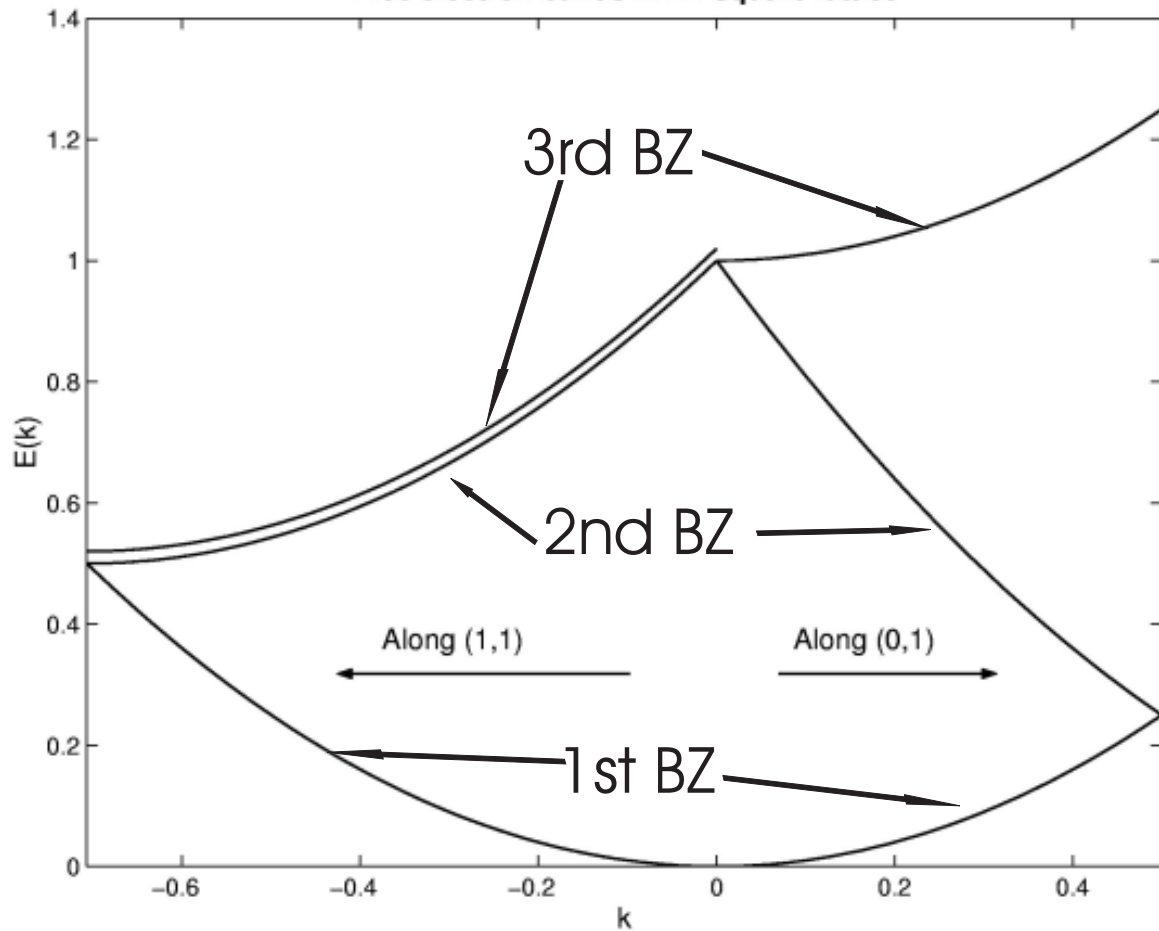
Extended Zone scheme.



Reduced Zone scheme.

Same trajectory in different zones in reduced zone scheme may be very different in extended zone scheme.

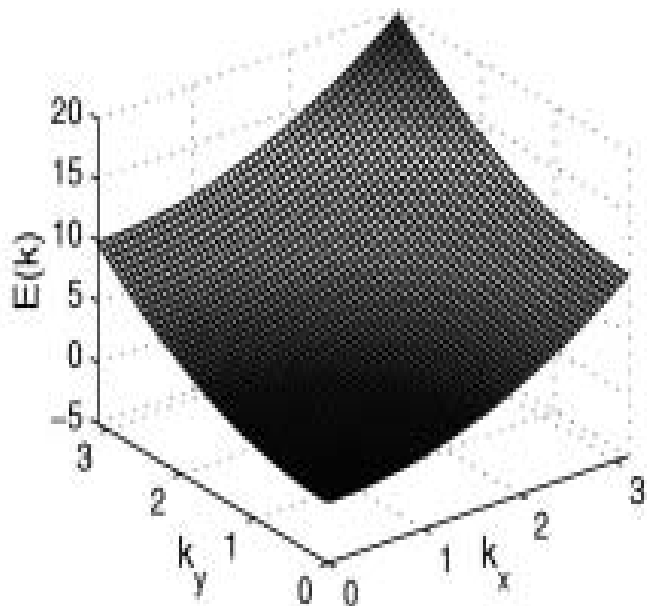
Free electron bands in 2D square lattice



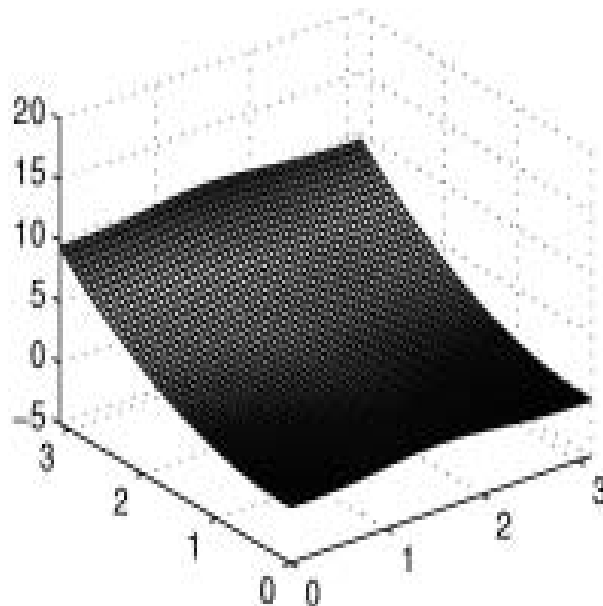
Scattering with a single fourier component

$$\mathbf{G} = (2\pi/a, 0, 0)$$

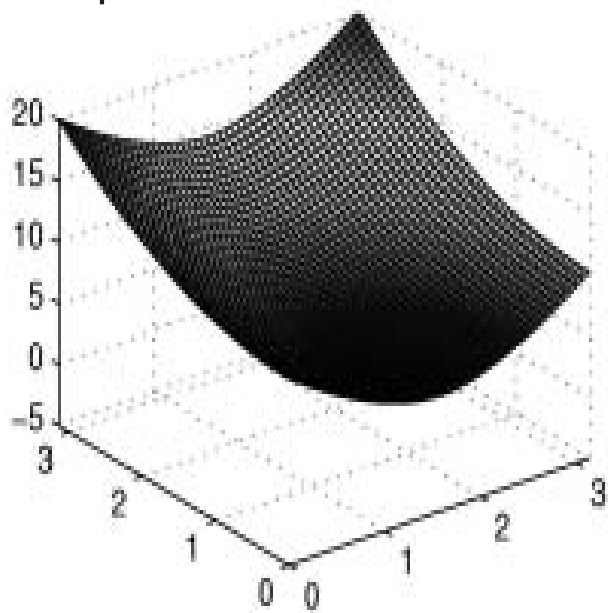
Free electron parabola



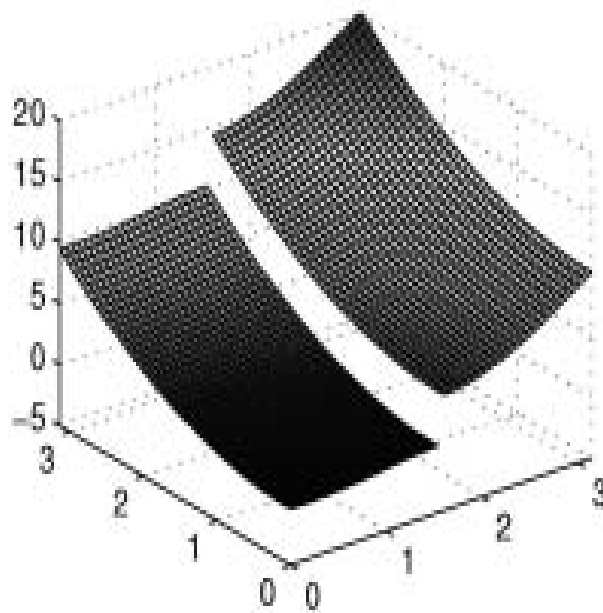
Lower band
periodic zone scheme



Upper band
periodic zone scheme



Both bands in
extended zone scheme



Contours of constant energy

