

Figure 4.4: (color online) Spectral density function, $A(x=.5L,k_y,E)$, for values of μ from 0 eV to .14 eV. This images are used in a movie found online[2]. The linear dispersion $(E \sim k)$ transitions to a flat band $(E \sim k^N)$ as μ increases. This flat band is responsible for the peak in DOS in figure 4.2.