

## Quiz 17

Monday, May 22, 2017 1:02 PM

If the  $n^{\text{th}}$  band is described by

$$E^{(n)}(\vec{k}) = \alpha_n - 2|\beta_n|(\cos k_x a + \cos k_y a + \cos k_z a)$$

Find an expression for the effective mass of a charge carrier at the bottom of this band.