

Figure 1: Dispersion diagram

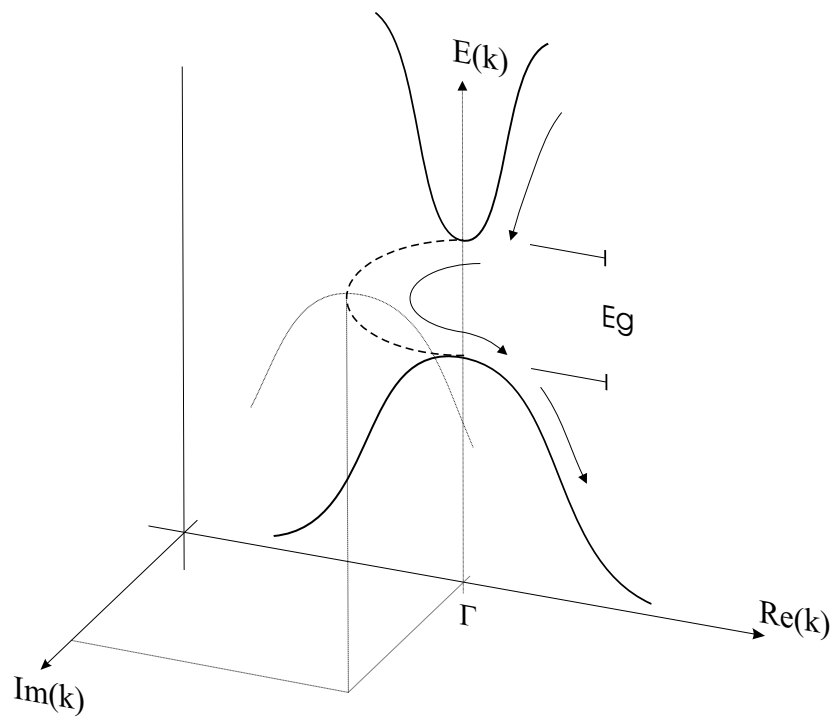


Figure 2: Dispersion diagram for real and imaginary values of  $k$

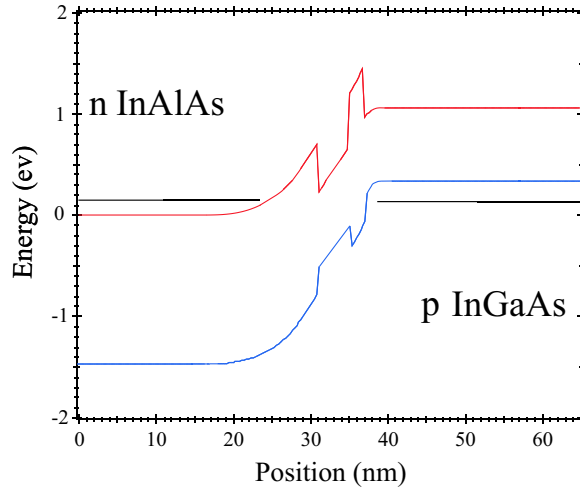


Figure 3: Band diagram of K11A-M21 MBE840 Motorola diode, used in the simulations

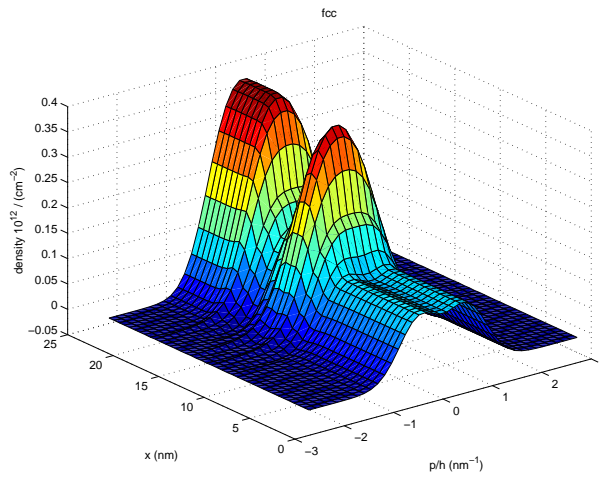


Figure 4: Thermal equilibrium Wigner function  $f_{1,1}$

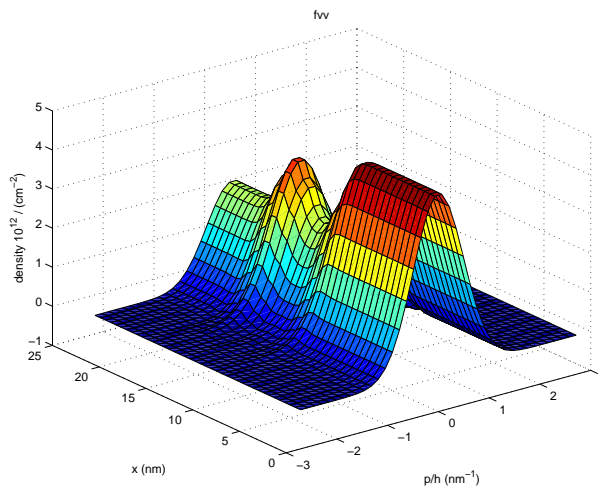


Figure 5: Thermal equilibrium Wigner function  $f_{2,2}$

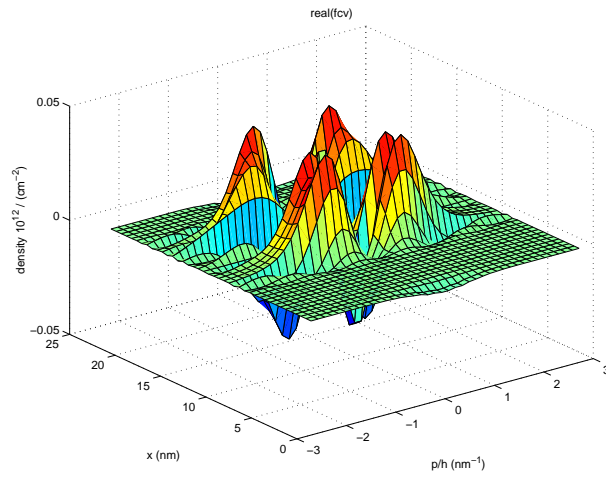


Figure 6: Real part of thermal equilibrium Wigner function  $f_{1,2}$

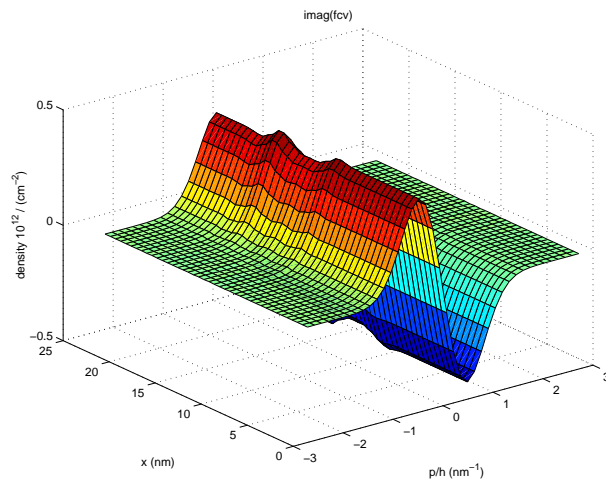


Figure 7: Imaginary part of thermal equilibrium Wigner function  $f_{1,2}$