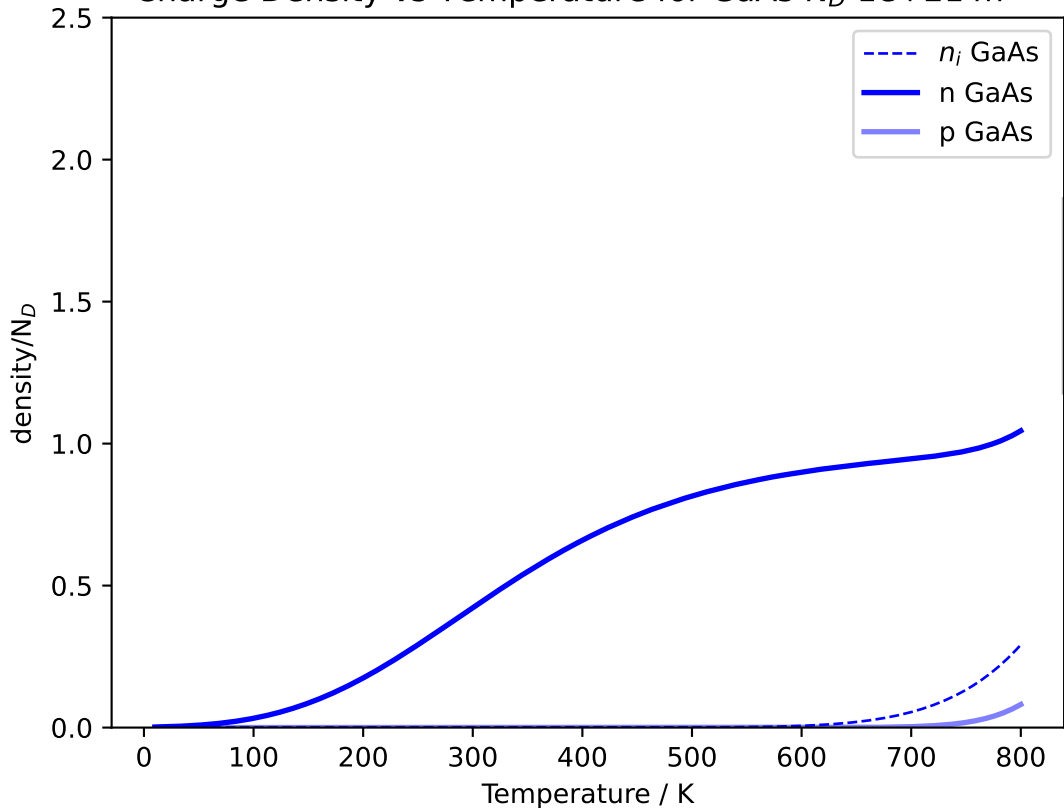


Charge Density vs Temperature for GaAs $N_D 1e+21 \text{ m}^{-3}$



GaAs Parameters

$$E_g = 1.42 \text{ eV}$$

$$m_n^* = 0.067$$

$$m_p^* = 0.51$$