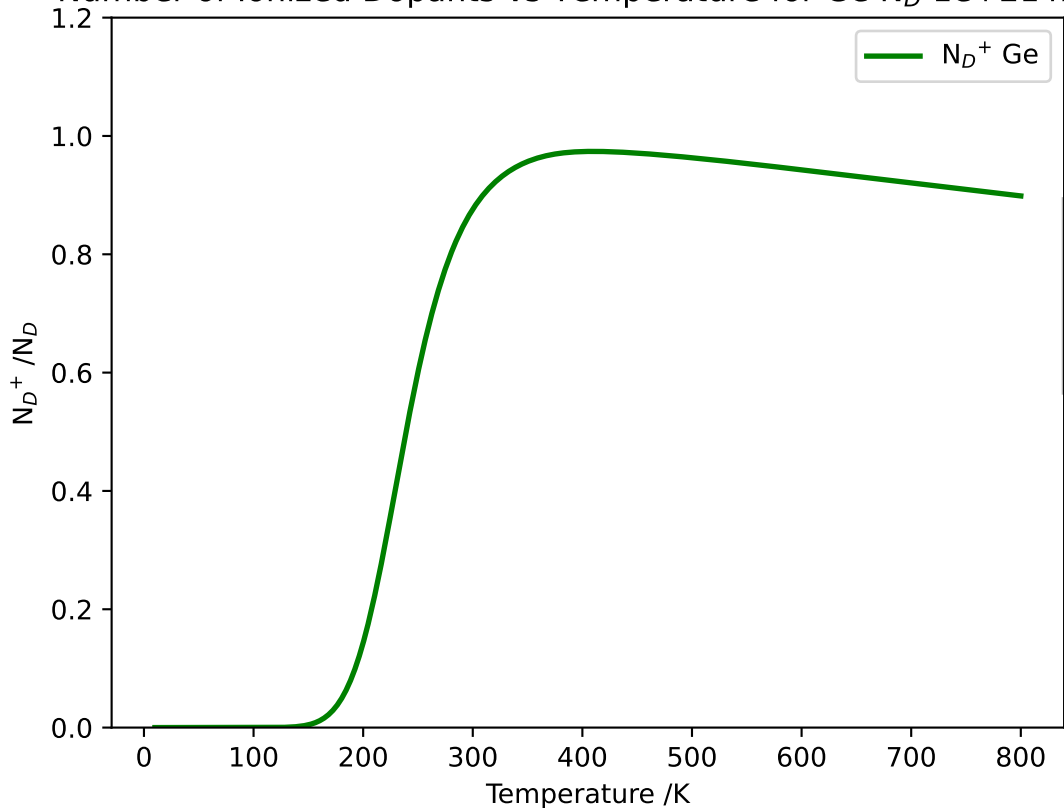


Number of Ionized Dopants vs Temperature for Ge  $N_D 1e+21 \text{ m}^{-3}$



Ge Param

$$E_g = 0.6$$

$$m_n^* = 0.5$$

$$m_p^* = 0.$$