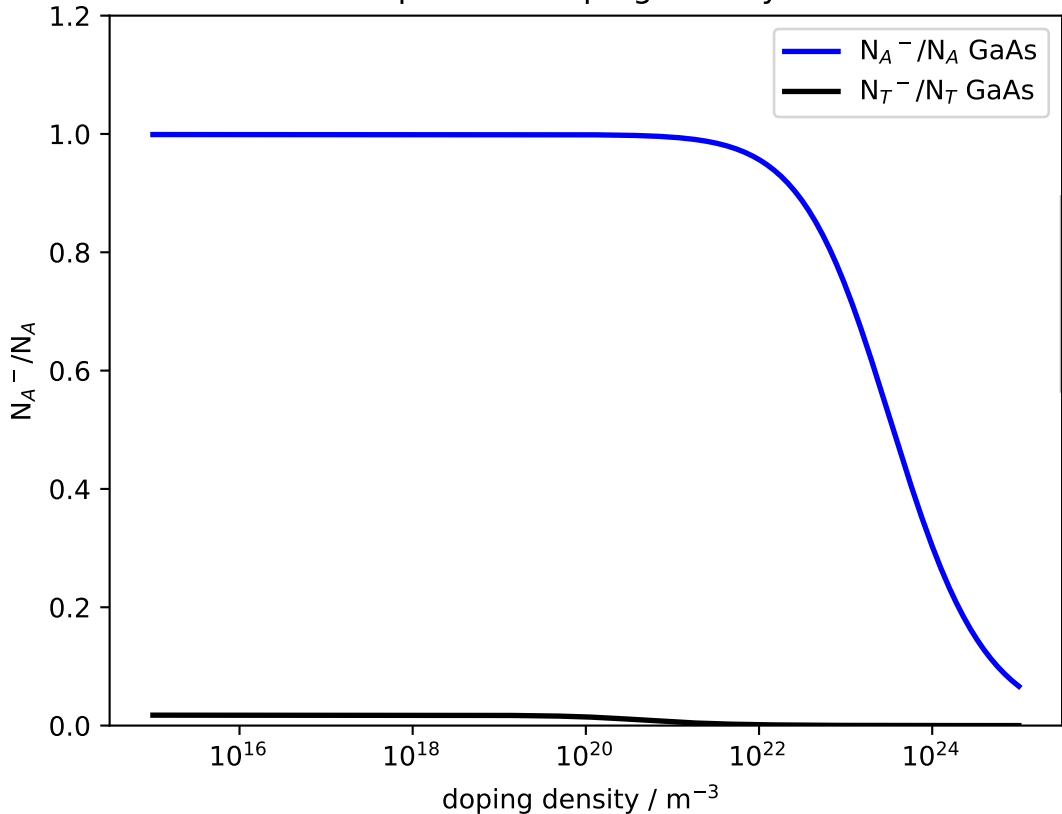


Number of Ionized Dopants vs doping density for GaAs at $T = 300\text{K}$



GaAs Parameters

$E_g = 1.42 \text{ eV}$

$m_n^* = 0.067$

$m_p^* = 0.51$