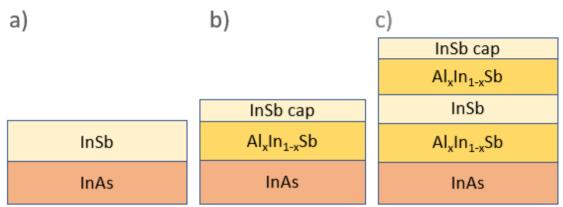
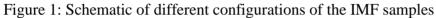
Supplementary Pages





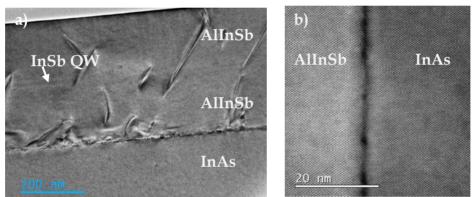


Figure 2: TEM image of InSb QW using AlInSb buffer shown (a). Interfacial misfit dislocations at the AlInSb/InAs interface

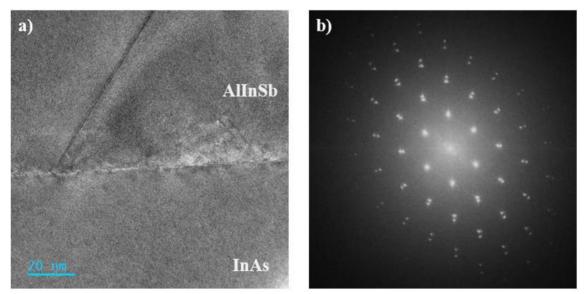


Figure 3: *TEM* of the $Al_{0.2}In_{0.8}Sb/InAs$ buffer layer interface showing a stacking fault formation and FFT of the image shows two distinct lattice parameters $Al_{0.2}In_{0.8}Sb$ and InAs

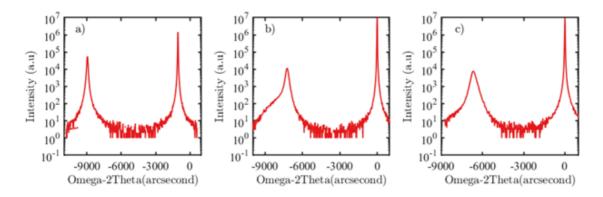


Figure 4 – HR-XRD ω -2 θ scans of a) InSb/InAs b) Al_{0.1}In_{0.9}Sb and c) Al_{0.2}In_{0.8}Sb buffer layers