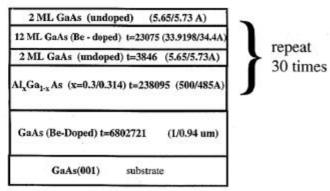


SACT PREPARED MBE QWIP STRUCTURE



Al_xGa_{1-x}As/GaAs -QWIP x = composition (expected/XRD) QW thickness (expected/XRD)

As Cap	As termination
GaAs (Be - Doped)t=	3401361 (0.5/0.47um)
Al _x Ga _{1-x} As (x=0.3	3/0.314) (500/485A)



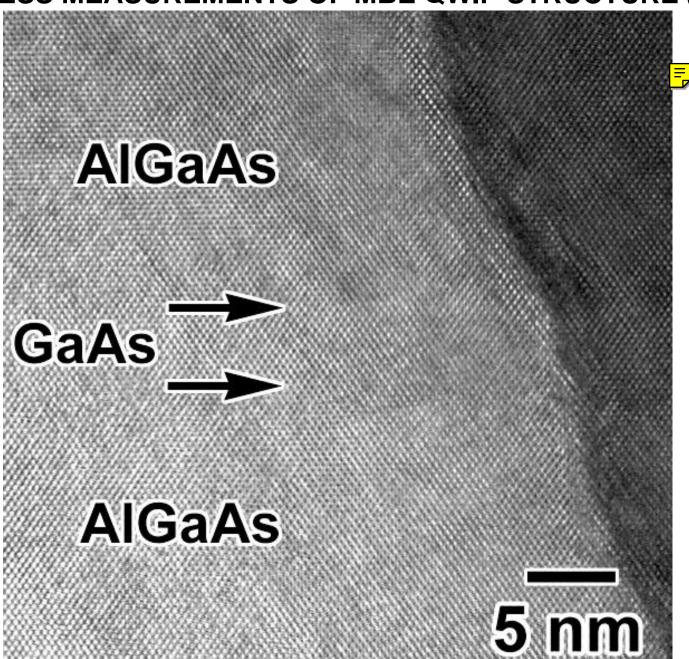
$$\begin{split} T_{mb} = &800/615 \, ^{\circ}\mathrm{C} \\ T_{Al} = &1137 \, ^{\circ}\mathrm{C} \\ T_{Ga} = &980 \, ^{\circ}\mathrm{C} \\ T_{Be} = &830 \, ^{\circ}\mathrm{C} \\ T_{As} = &900 \, ^{\circ}\mathrm{C}/390 \, ^{\circ}\mathrm{C}/\mathrm{vp} = 0.75 \end{split}$$

Quantum Well Infrared Photodetector

THICKNESS MEASUREMENTS OF MBE QWIP STRUCTURE (on-[011])

GaAs **AIGaAs** GaAs **AIGaAs** GaAs

THICKNESS MEASUREMENTS OF MBE QWIP STRUCTURE (on-[011])



Thickness Measurements of MBE QWIP Structure -off [011] along (200)

