

15 nm Al

10nm In_{0.81}Ga_{0.19}As

7nm InAs QW

4 nm In_{0.81}Ga_{0.19}As

6nm In_{0.81}Al_{0.19}As

In_{x=0.52-0.81}Al_{1-x}As
InAlAs Graded Buffer

100nm In_{0.52}Al_{0.48}As

S.I. InP(001) Substrate

**Quantum
Well**

Si delta doped