

7-6 wavefunction for ptcl in 3-D box

$$\psi_{111} = A \sin \frac{1 \pi x}{L_1} \sin \frac{1 \pi y}{L_2} \sin \frac{1 \pi z}{L_3}$$

$$\psi_{112} = A \sin \frac{\pi x}{L_1} \sin \frac{\pi y}{2L_1} \sin \frac{2\pi z}{4L_1}$$

$$\psi_{113} = A \sin \frac{\pi x}{L_1} \sin \frac{\pi y}{2L_1} \sin \frac{3\pi z}{4L_1}$$

$$\psi_{121} =$$

$$\psi_{114} =$$

$$\psi_{122} =$$

$$\psi_{123} =$$

$$\psi_{115} =$$

$$\psi_{124} =$$

$$\psi_{131} =$$

$$\psi_{116} =$$

$$\psi_{132} = A \sin \frac{\pi x}{L_1} \sin \frac{3\pi y}{2L_1} \sin \frac{2\pi z}{4L_1}$$