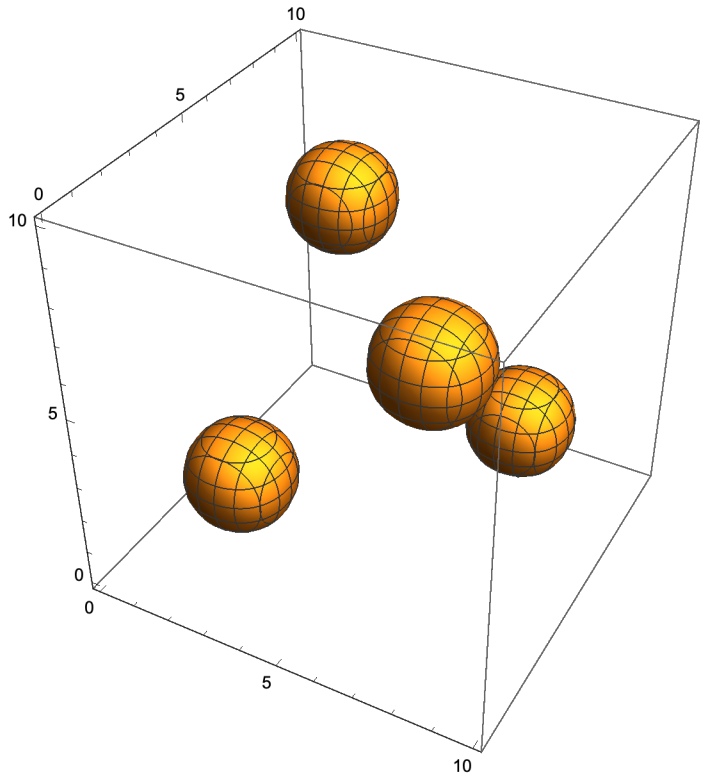
$$\psi[x\_, nx\_] := \sqrt{\frac{2}{L}} * \text{Sin}\left[\frac{nx * \pi}{L} x\right];$$

$$\psi[y\_, ny\_] := \sqrt{\frac{2}{L}} * \text{Sin}\left[\frac{ny * \pi}{L} y\right];$$

$$\psi[z\_, nz\_] := \sqrt{\frac{2}{L}} * \text{Sin}\left[\frac{nz * \pi}{L} z\right];$$

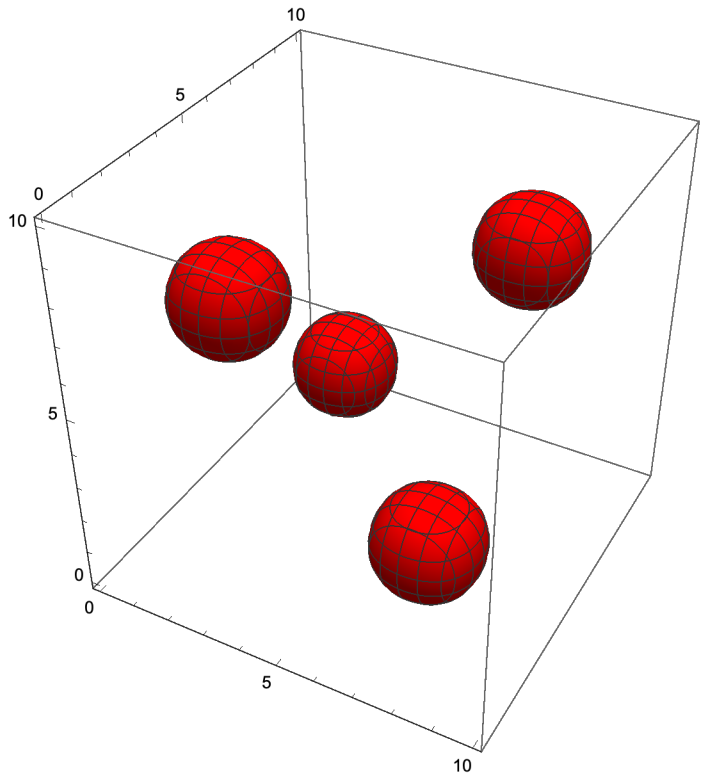
```
L = 10;
p1 = ContourPlot3D[{ψ[x, 2] × ψ[y, 2] × ψ[z, 2] == 0.06},
   {x, 0, 10}, {y, 0, 10}, {z, 0, 10}]
```

Out[90]=



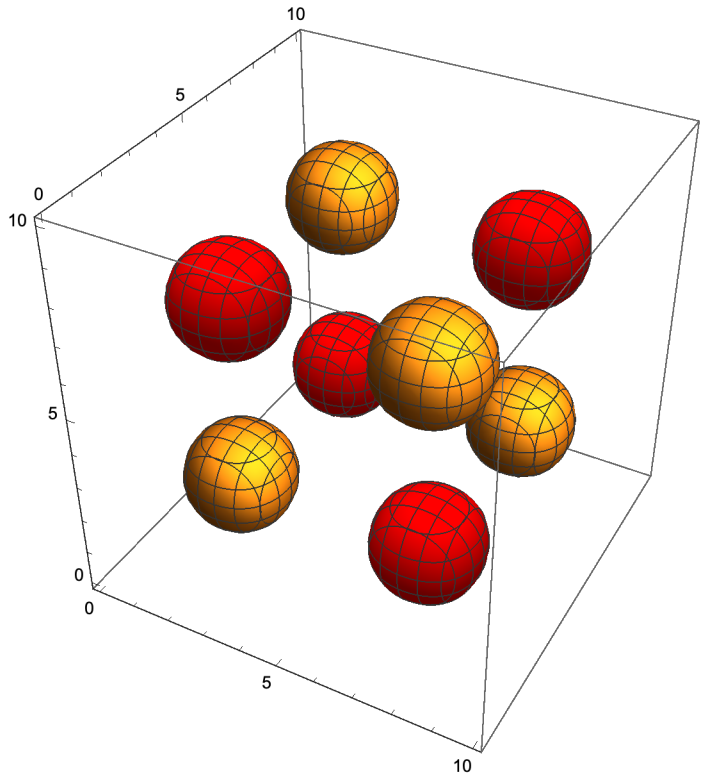
In[92]:=
```
p2 = ContourPlot3D[{ψ[x, 2] × ψ[y, 2] × ψ[z, 2] == -0.06},
   {x, 0, 10}, {y, 0, 10}, {z, 0, 10}, ContourStyle → Directive[Red]]
```

Out[92]=



In[93]:=
```
Show[p1, p2]
```

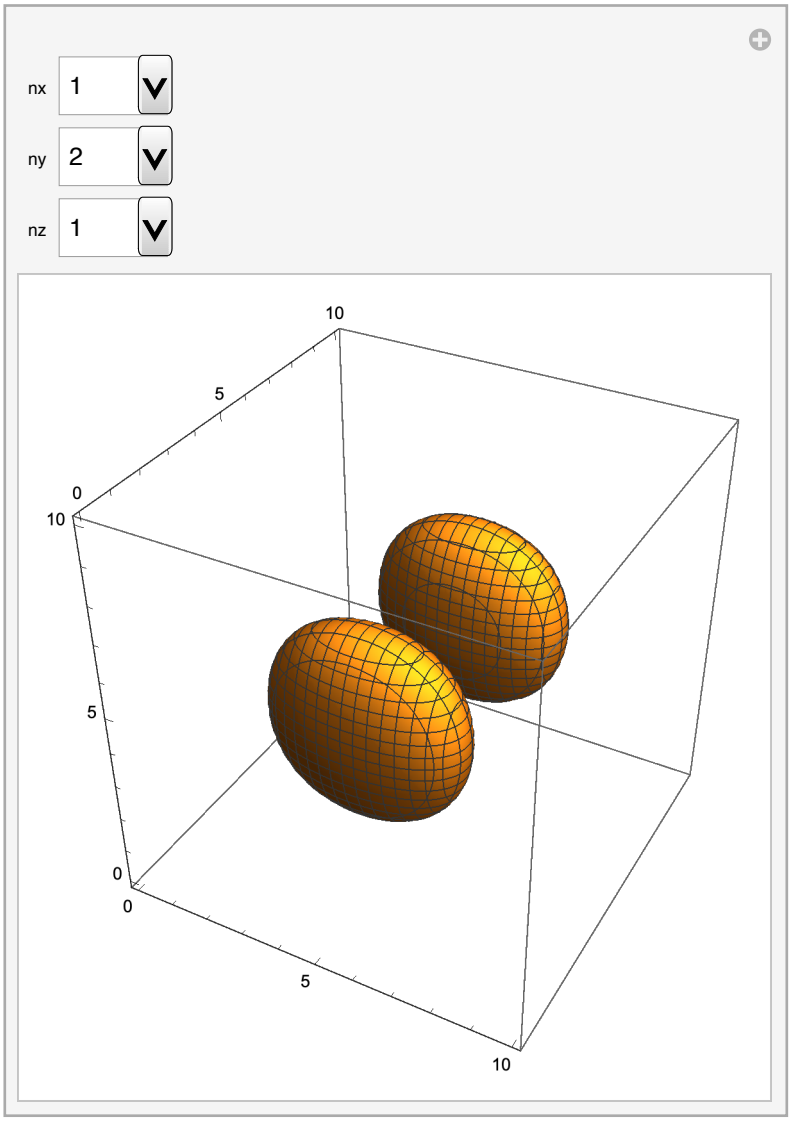
Out[93]=



In[94]:=

```
Manipulate[ContourPlot3D[(ψ[x, nx] × ψ[y, ny] × ψ[z, nz])^2 == 0.004,
  {x, 0, 10}, {y, 0, 10}, {z, 0, 10}, PlotPoints → 15],
 {nx, 1, 10, 1}, {ny, 1, 10, 1}, {nz, 1, 10, 1}, ControlType → PopupMenu]
```

Out[94]=



In[ ]:=