4TE0 80 1. (1) E的可能取值: E = -4TC50 20

2-10. | Ynim (+,0,0)| 代表在球坐标下(r,0,4)处的概率密度 在1→r+dr的概率: Pdr dΩ | Unim(r, θ, φ) = | Rni(r) | 2rdr [n | Rn(Cn) 2 r2dr:在h→r2的概率 用子出现在(θ, φ)的立体角d2中的概率为 $\frac{d\Omega \Gamma |\Psi_{nm}(r,\theta,(\rho)|^2 r^2 dr = |Y_{lm}(\theta,(\rho)|^2 d\Omega)}{= |Y_{lm}(\theta,(\rho)|^2 sin\theta d\theta d\phi} = \int_0^{2\pi} \int_0^{\pi} |Y_{lm}(\theta,(\rho)|^2 sin\theta d\theta d\phi}$ = JLC1+17 h, h=3 At, 1=0. り取0, 12 ち、16 ち -12. n=3, l=2, m=0, ±1, ±2 L= 16 h, Lz=0, th, ±2h $\theta = \frac{\pi}{2}$ of $\cos^{-1}(\frac{1}{\sqrt{6}})$ of $\cos^{-1}(\frac{2}{\sqrt{6}})$ of $\cos^{-1}(\frac{1}{\sqrt{6}})$ 一个公分 -13. h=4. l=0,1,2,30,52节,15节,23节 4 (411807 / 2