第五次作业

1. 证明： $\left[\hat{L}_y, \hat{L}_z\right] = i\hbar\hat{L}_x$

2. $\hat{L}_+ = \hat{L}_x + i\hat{L}_y, \hat{L}_- = \hat{L}_x - i\hat{L}_y$， 证明：$[\hat{L}_+, \hat{L}_-] = 2\hbar\hat{L}_z$， $[\hat{L}_z, \hat{L}_\pm] = \pm\hbar\hat{L}_\pm$

3. **对于类氢原子(核电荷 Ze)的 $l=n-1(n_r=0)$轨道，计算：(1)最概然半径.**