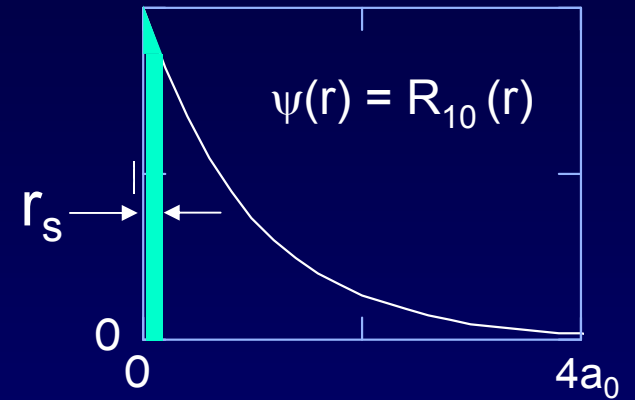


Probability Calculation

Estimate the probability of finding the electron within a small sphere of radius $r_s = 0.2 a_0$ at the origin.



$$\psi(r) = Ne^{-r/a_0}$$