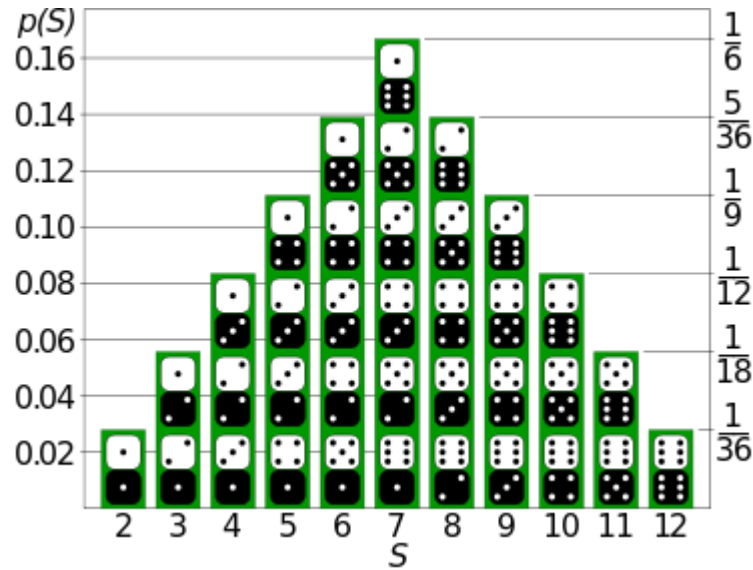
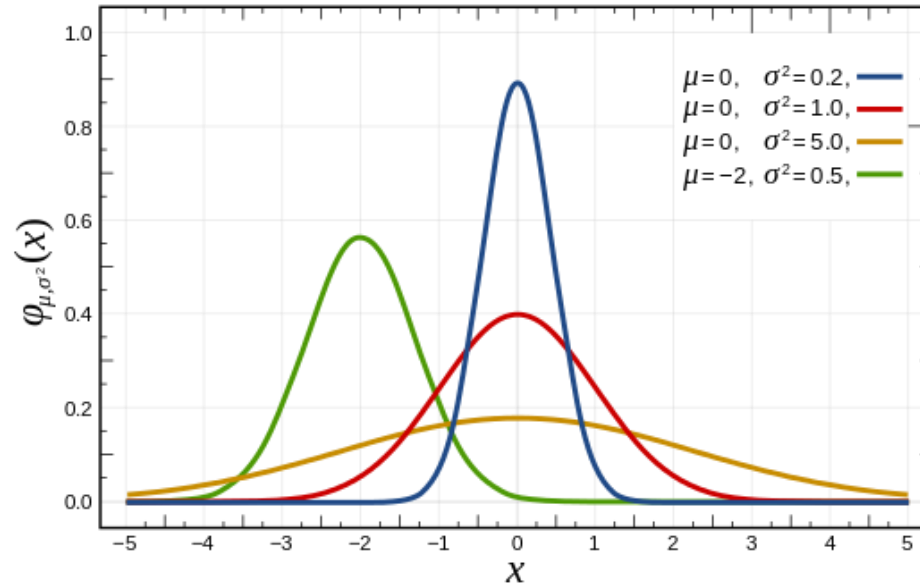


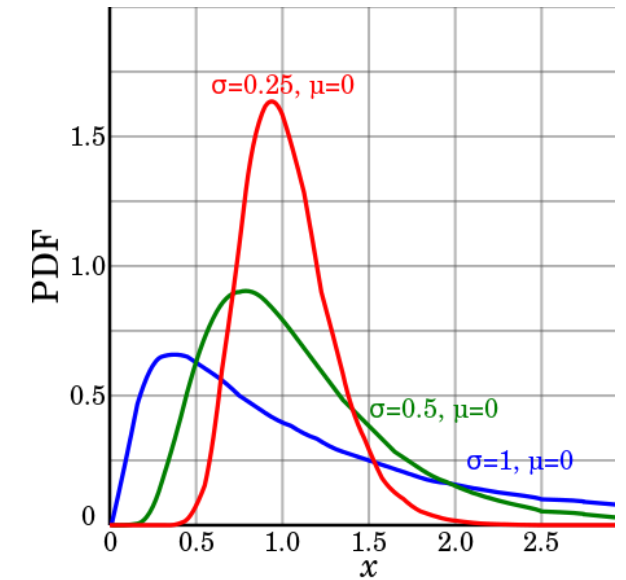
# Probability Distributions



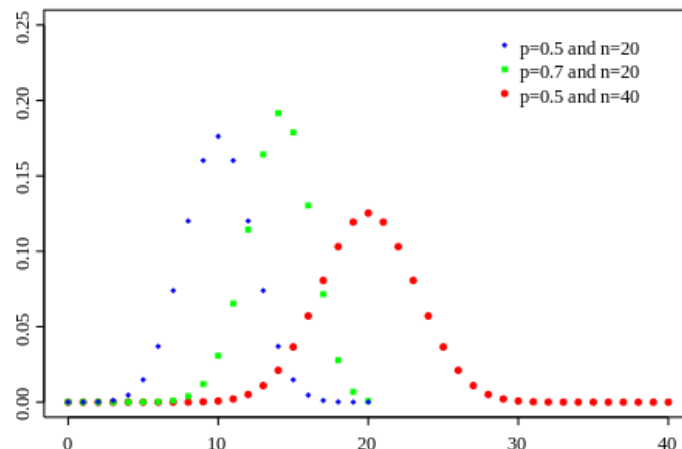
Discrete – sum of two dice



Normal (Gaussian) distribution

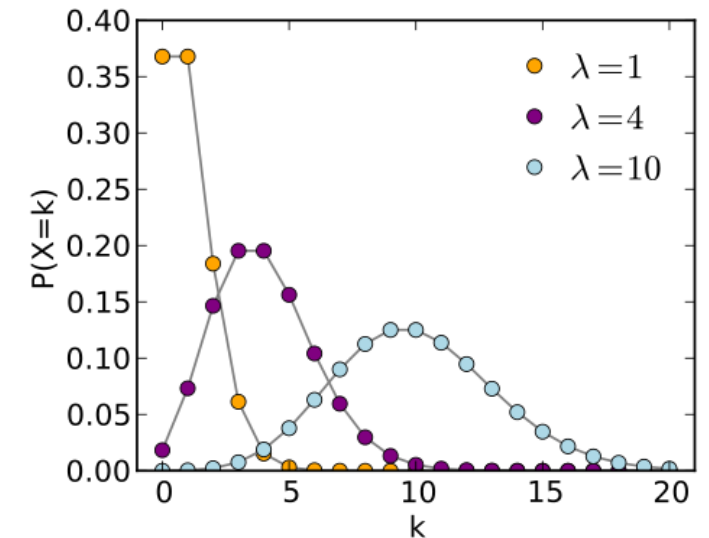


Log-normal distribution

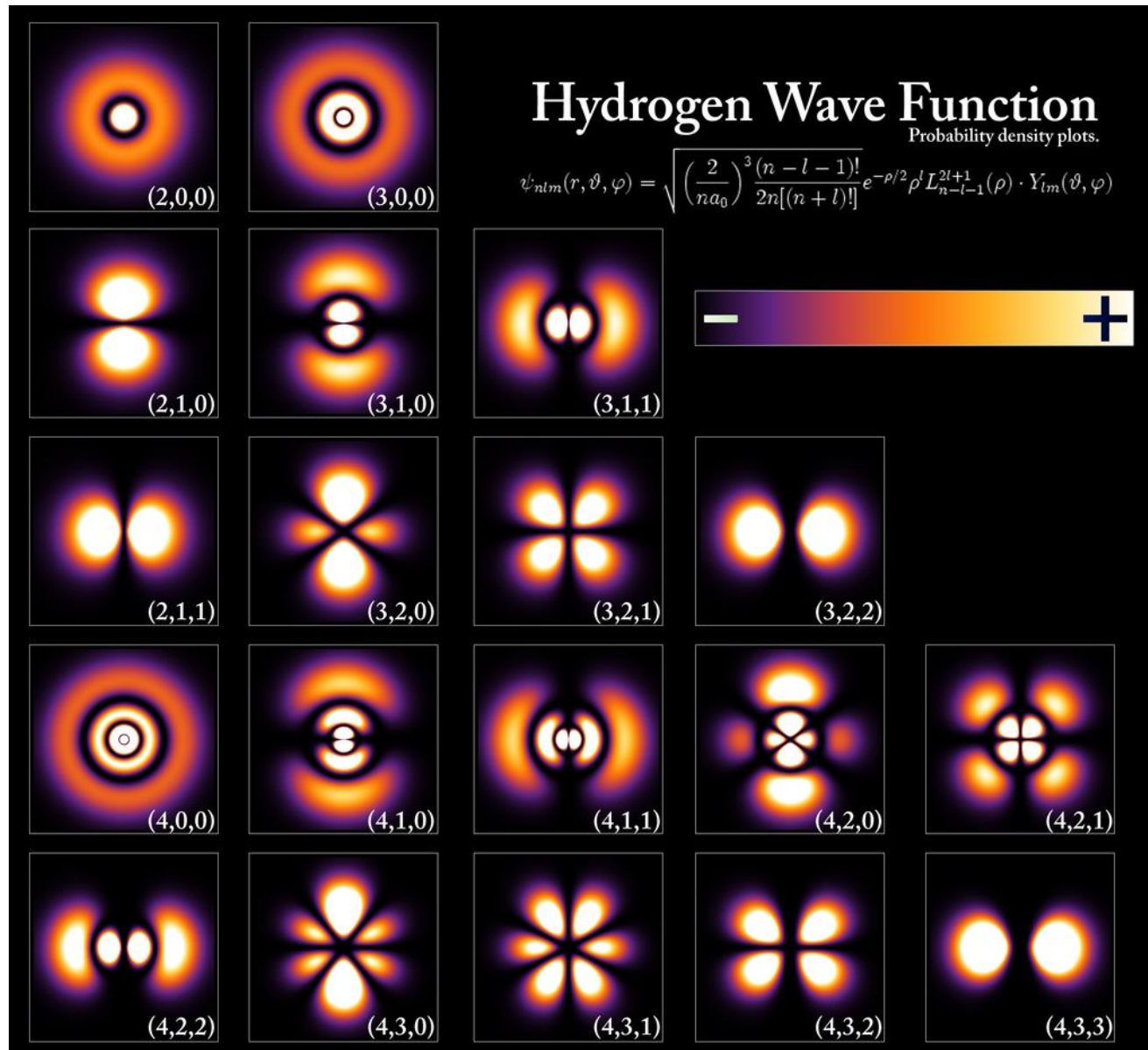


Binomial distribution

Poisson distribution



# Wavefunctions



The three-dimensional probability distributions for electron position for the different states of Hydrogen are given by  $|\psi(r)|^2$