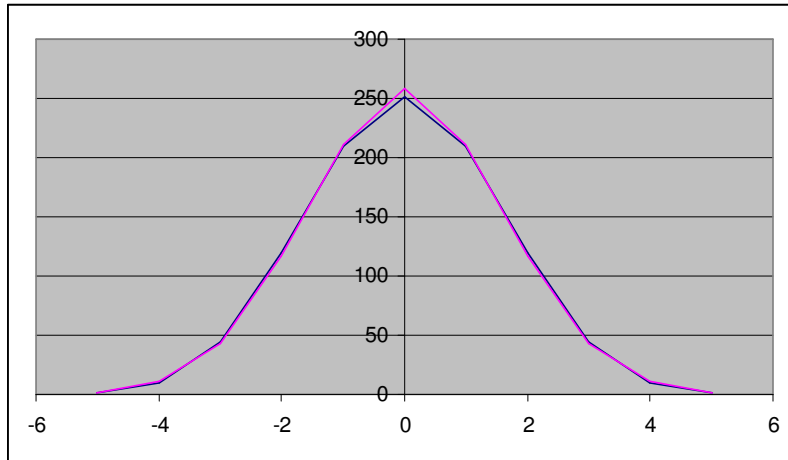# Thermal Physics

Gaussian distribution, binary systems

Problem 1.- Graph the binary distribution and the Gaussian approximation for N = 10 and N = 100.

Solution: Binary distribution and the Gaussian approximation for N= 10:

The exact value of the multiplicity is the curve in blue, while the approximation is in pink. Binary distribution and the Gaussian approximation for N= 100: