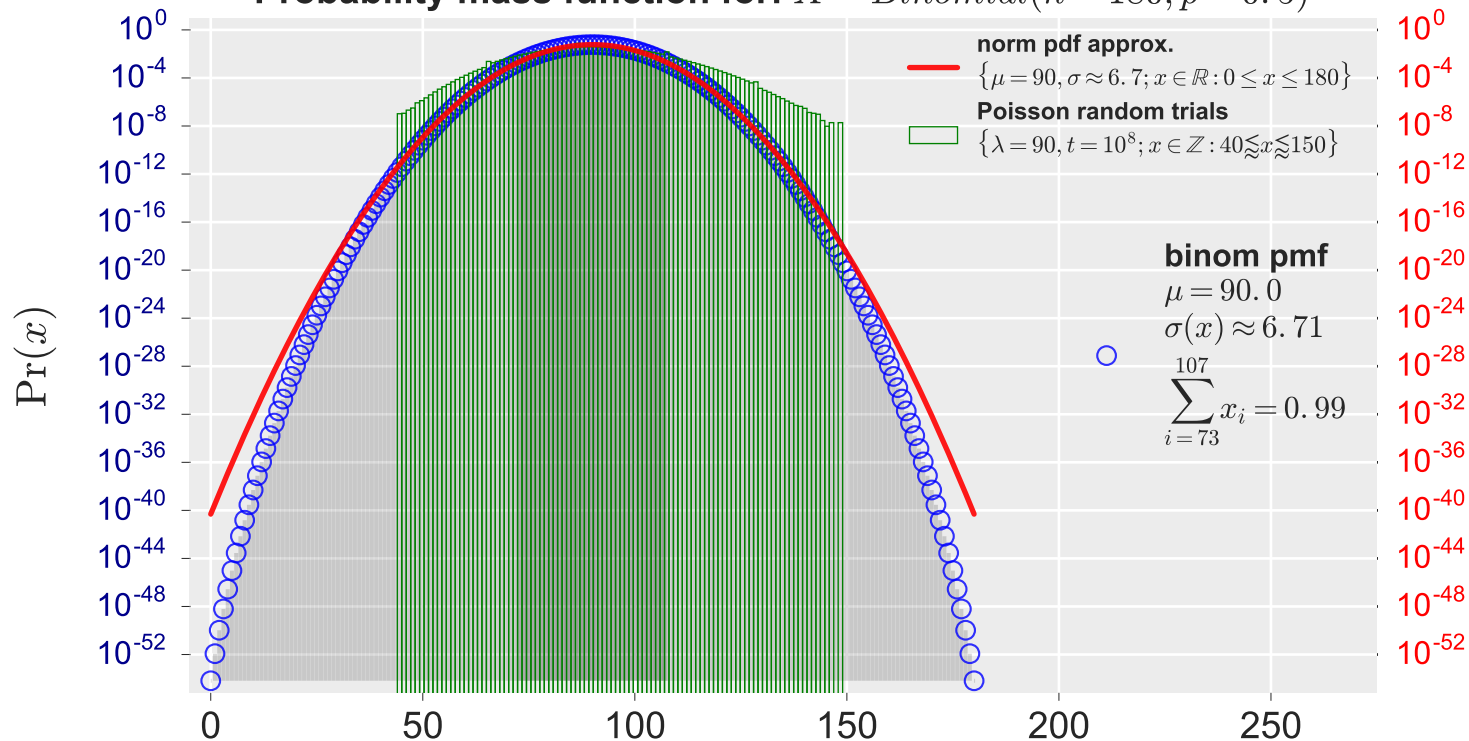


# Probability mass function for: $X \sim \text{Binomial}(n = 180, p = 0.5)$



## Number of SNPs with shared zygosity

$$f(x; n, p) = \Pr(X = x) = \frac{n!}{x!(n-x)!} * p^x (1-p)^{n-x}$$

from  $\{x \in N : 0 \leq x \leq n\}$ , where  $N = \{0, 1, 2, \dots, 266\}$