



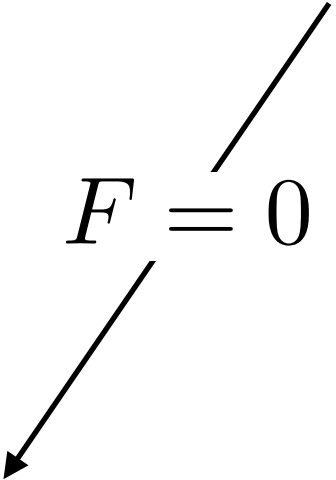
Expected Genotype  
Frequency

3

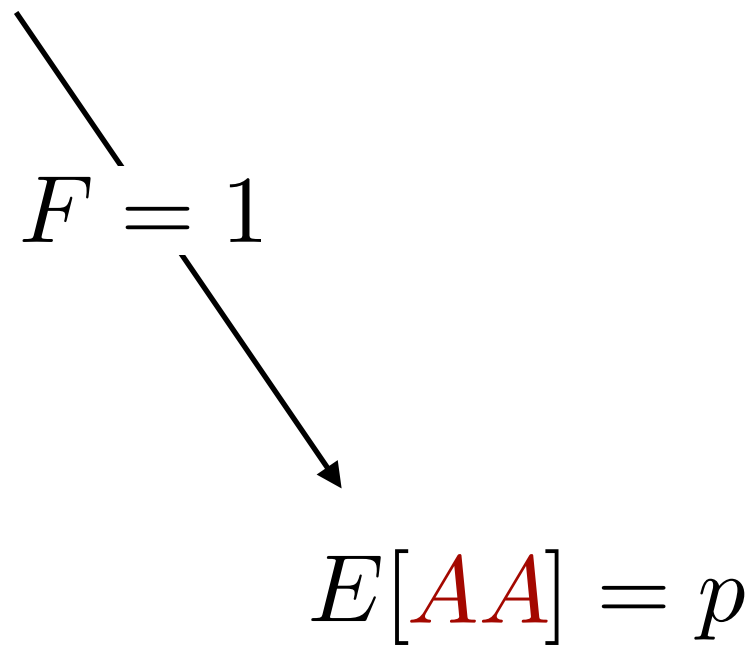
1

$$E[\phantom{x}] \equiv p^2(1-F) + pF$$

AA


$$F = 0$$

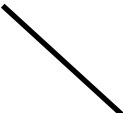
$$E[\textcolor{red}{A}\textcolor{red}{A}] = p^2$$

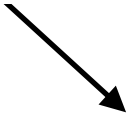


A diagram illustrating a logical implication. It consists of two mathematical expressions connected by two arrows. The first expression,  $F = 1$ , is located in the upper left. The second expression,  $E[AA] = p$ , is located in the lower right. A straight arrow points from the top-left towards the bottom-right, passing through the space between the two equations. A second arrow starts from the right side of the first equation and points directly to the second equation.

$$F = 1$$

$$E[AA] = p$$


$$F = -1$$



?



# Expected Genotype Frequency

$$E[AA] = p^2(1 - F) + pF$$

$$F = 0$$

$$E[AA] = p^2$$

$$F = 1$$

$$E[AA] = p$$

$$F = -1$$

?

# Estimation of F

$$\begin{aligned} F &= \frac{H_E - H_O}{H_E} \\ &= 1 - \frac{H_O}{H_E} \end{aligned}$$