Genotypic Values

Genotype	Gerolypic Value (V)
GAGA	+ a = V4 + d = V12
GzGz	-9 = V22

Population

U is a discrek random variable

D Expected value of V:

E(V) = [Vm]. |f(G,G) & Haroly-Weinburg + V12 . f (G.Gr)

+ V22 . f (G2G2)

= a. p2 + d. 2pg + (-a). g2 =  $(p^2-q^2) \cdot q + 2pq \cdot d$   $(p^2q^2)$ =  $(p-q)q + 2pq \cdot d$  = (p+q)(p-q)=  $(p-q)q + 2pq \cdot d$  = (p-q)

Population Mean