

$N_{NS}$  sitios. Reparto  $P$  de 1 tipo y  $A$  del otro tipo

$$\binom{N_{NS}}{P} \cdot \binom{N_{NS}-P}{A}$$

$$= \frac{N_{NS}!}{P! \cdot \cancel{(N_{NS}-P)!}} \cdot \frac{\cancel{(N_{NS}-P)!}}{A! \cdot (N_{NS}-P-A)!} \rightarrow \epsilon_{Pd}^{NS} \quad \epsilon_{A}^{NS}$$

$$\frac{N_{NS}!}{P! \cdot A! \cdot (N_{NS}-P-A)!}$$

$$\exp(-\beta [P \epsilon_{NS}^P + A \epsilon_{NS}^A])$$

el signo para el aditivo o multiplicativo

$$\frac{N_{NS}!}{P! \cdot (A-1)! \cdot (N_{NS} - P - (A-1))!}$$

$$e^{-\beta} \left[ \underbrace{P \epsilon_{pd}^{NS}} + \underbrace{(A-1) \epsilon_{ad}^{NS}} + \epsilon_{pd}^S \right]$$

$$\frac{N_{NS}!}{P! \cdot (A-1)! \cdot (N_{NS} - P - (A-1))!} e^{-\beta [P \epsilon_{pd}^{NS} + (A-1) \epsilon_{ad}^{NS}]}$$

$$e^{-\beta \epsilon_{pd}^S}$$

$$= Z(P, A-1; N_{NS})$$