

?

$$S_q=\frac{k}{q-1}\left(1-\sum_{i=1}^Wp_i^q\right),$$

(1)

$$\begin{array}{l} \overset{k}{q} \\ S = \sum_{i=1}^W -k p_i \ln p_i \\ \overset{q}{1} \rightarrow \\ \{p_i\} \\ \sum_{i=1}^W p_i = \\ W = \\ \overset{q}{1} \\ \frac{A}{B} \\ \frac{S_q(A \cup B)}{k} = \frac{S_q(A)}{k} + \frac{S_q(B)}{k} + (1-q) \frac{S_q(A)}{k} \frac{S_q(B)}{k}, \end{array}$$

(2)

$$\begin{array}{l} \text{regla} \\ \text{de} \\ \text{pseudo-} \\ \text{qditividad} \\ \overset{1}{q} < \\ (> \\ )1 \\ W \\ W_a \\ W_b = \\ p_a = \\ \sum_{i=1}^W p_i \\ p_b = \\ \sum_{i=W_a+1}^W p_i \\ S_q(\{p_i\}) = S_q(p_a, p_b) + p_a^q S_q(\{p_i/p_a\}) + p_b^q S_q(\{p_i/p_b\}), \end{array}$$

(3)

$$\begin{array}{l} \{p_i/p_{a(b)}\} \\ \overset{q}{1} \\ \overset{1}{q} \rightarrow \\ \overset{1}{q} < \\ (> \\ )1 \\ p_i^q > \\ (< \\ )p_i \\ \overset{q}{1} > \\ \overset{1}{q} < \\ \downarrow \\ W \\ \langle U \rangle \\ \sum p_i = \\ \sum p_i \varepsilon_i = \\ \langle U \rangle \\ \varepsilon_i \\ \downarrow \\ ? \end{array}$$

$$p_i=\frac{[1-(q-1)\beta\varepsilon_i]^{1/(q-1)}}{Z_q(\beta)},$$

(4)

$$\begin{array}{l} Z_q(\beta) = \\ \sum_{i=1}^q [1-(q-1)\beta\varepsilon_i]^{1/(q-1)} \\ \sum_{i=1}^q p_i^q \varepsilon_i = \\ \sum_{i=1}^q p_i^q \omega_i = \\ \sum_{i=1}^q \Omega_i^q = \\ \sum_{i=1}^q p_i^q = \\ \langle 1 \rangle_q \neq \end{array}$$