



Entropy in statistical mechanics

- Hence, show that: $S = k_B \sum_i P_i \sum_k \lambda_k B_i^{(k)} + k_B \sum_i P_i \Psi$ to do this you will need to note how entropy, S , and information are related and to remember the formula that gives you the information contained in a distribution.

- What is $\sum_i P_i$ equal to

- What is $\sum_i P_i B_i^{(k)}$ equal to

- Give an expression for the entropy for a generalised distribution and explain how the results above are used in the derivation of this result.