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methods

developed in

class: Step 1:

Multiply both

sides by the

partition

function $H =$

$(E + pV) e^{-E_j/pV}$

V, j . Step 2: Get

the temperature

derivative at

constant $(N, P$

$)$ (The conjugate

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variable to H in
this case) $\frac{\partial H}{\partial T} = 1$
 $+ \sum_j \frac{\partial H}{\partial (E_j + pV)} = \sum_j \frac{\partial T}{\partial (E_j + pV)}$

$\frac{\partial T}{\partial (E_j + pV)} = \frac{1}{kT}$
 $\frac{\partial T}{\partial (E_j + pV)} = \frac{1}{kT} \frac{\partial T}{\partial (E_j + pV)}$

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