state	energy	multiplicity	Boltzmann	Normalized
	$Parepsilon_{ ho}^{(NS)}$	$\frac{N_{NS}!}{P!(N_{NS}-P)!} \approx \frac{N_{NS}^P}{P!}$	weight $rac{N_{NS}^{P}}{P!}e^{-eta Parepsilon_{p}^{(NS)}}$	weight
	$\varepsilon_P^{(S)} + (P-1)\varepsilon_P^{(NS)}$	$\frac{N_{NS}!}{(P-1)!(N_{NS}-(P-1))!} \approx \frac{N_{NS}^{P-1}}{(P-1)!}$	$\frac{N_{NS}^{P-1}}{(P-1)!}e^{-\beta\left[\varepsilon_{p}^{(S)}(P-1)\varepsilon_{p}^{(NS)}\right]}$	$\frac{P}{N_{NS}}e^{-\beta\Delta\varepsilon_{P}}$