Stotisticy -> Indistinacióshable TATA DAS $-\frac{1}{2}(N_1+51-1)!$ = (2+2-1)!170 mi! (SI-1)) 211!/

$$\mathcal{W}(\overline{n}) = \frac{1}{1-2} \frac{(n_1 + s_1 - 1)!}{(n_1 + s_1 - 1)!}$$

$$\mathcal{W}(\overline{n}) = \frac{1}{1-2} \frac{(n_1 + s_1 - 1)!}{(n_1 + s_1 - 1)!} - \frac{1}{1-1} \frac{(n_1 + s_1 - 1)!}{(n_1 + s_1 - 1)!}$$

$$\mathcal{W}(\overline{n}) = \frac{1}{1-2} \frac{(n_1 + s_1 - 1)!}{(n_1 + s_1 - 1)!}$$

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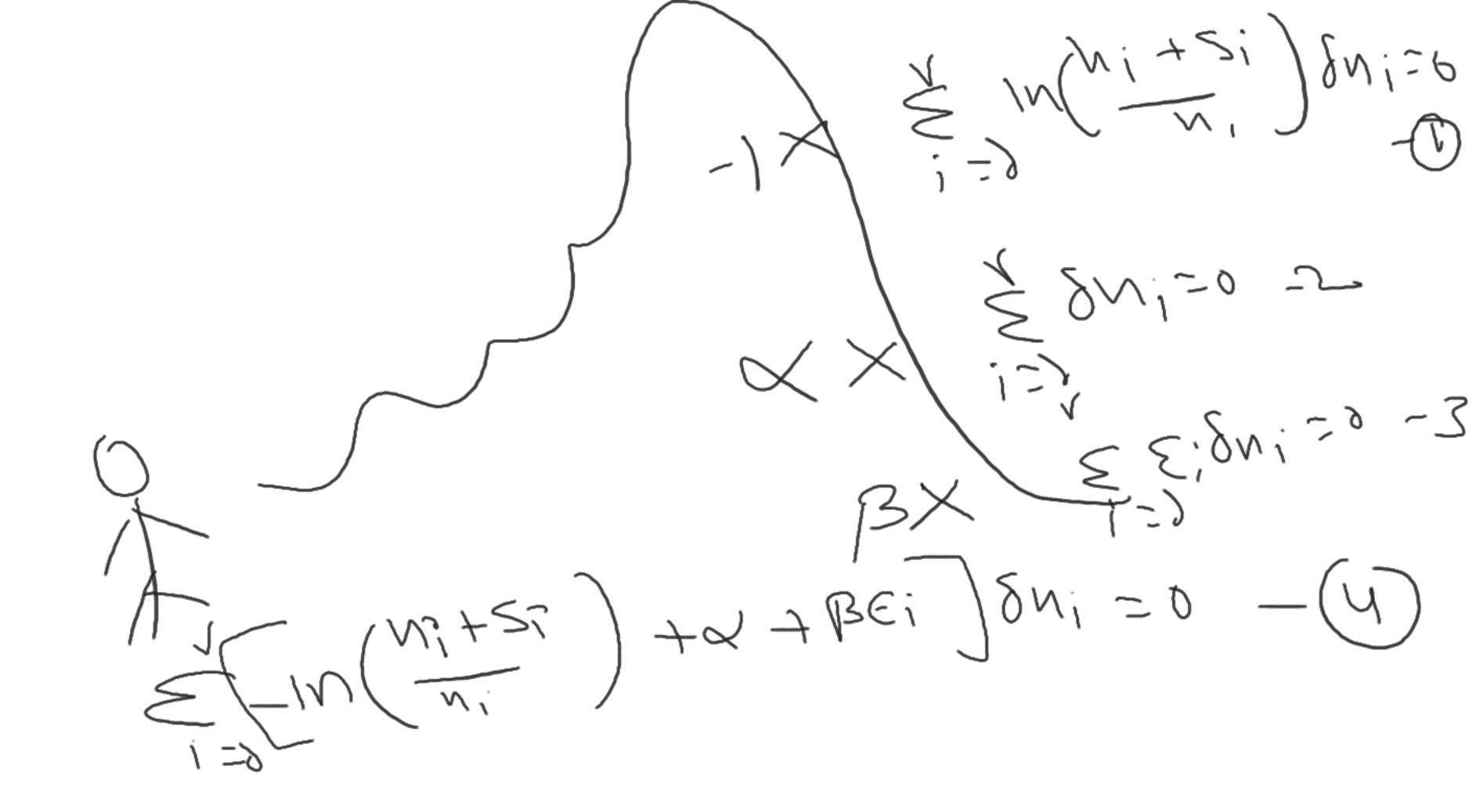
Stilling approximation

$$|N(N_i + s_i - 1)| = N_i + s_i - 1$$

$$= \sum_{j=0}^{|S|} (N_i + s_i) |N(N_i + s_i)| - |N(N_i + s_i)| - |N(N_i + s_i)| = \sum_{j=0}^{|S|} (N_i + s_i) |N(N_i + s_i)| - |N(N_i + s_i)| + |N(N_i + s_i)| = \sum_{j=0}^{|S|} (N_i + s_i) |N(N_i + s_i)| - |N(N_i + s_i)| + |N(N_i + s_i)| = \sum_{j=0}^{|S|} (N_i + s_i) |N(N_i + s_i)| - |N_i |N(N_i - |N_i)| + |N(N_i + s_i)| = \sum_{j=0}^{|S|} (N_i + s_i) |N(N_i + s_i)| - |N(N_i + s_i)| + |N(N_i + s_i)| +$$

$$= \sum_{i} \{ w_{i}(w_{i}(x_{i})) = 0 \}$$

 $\leq \frac{1}{N}\left(\frac{N!}{N!+2!}\right) g_{N!} = 0$ Total no of Particly in the system remains constand $\leq N' - N - (onst -)$ $\leq 8N' - 4 - 6)$ $\sum_{j=0}^{1=0} \sum_{j=0}^{1=0} \sum_{j=0}^{1=0}$ lægrange method of undeterminent multiplicy



$$-\ln\left(\frac{N_{i}+S_{i}}{N_{i}}\right)+\chi+\beta\in i=0$$

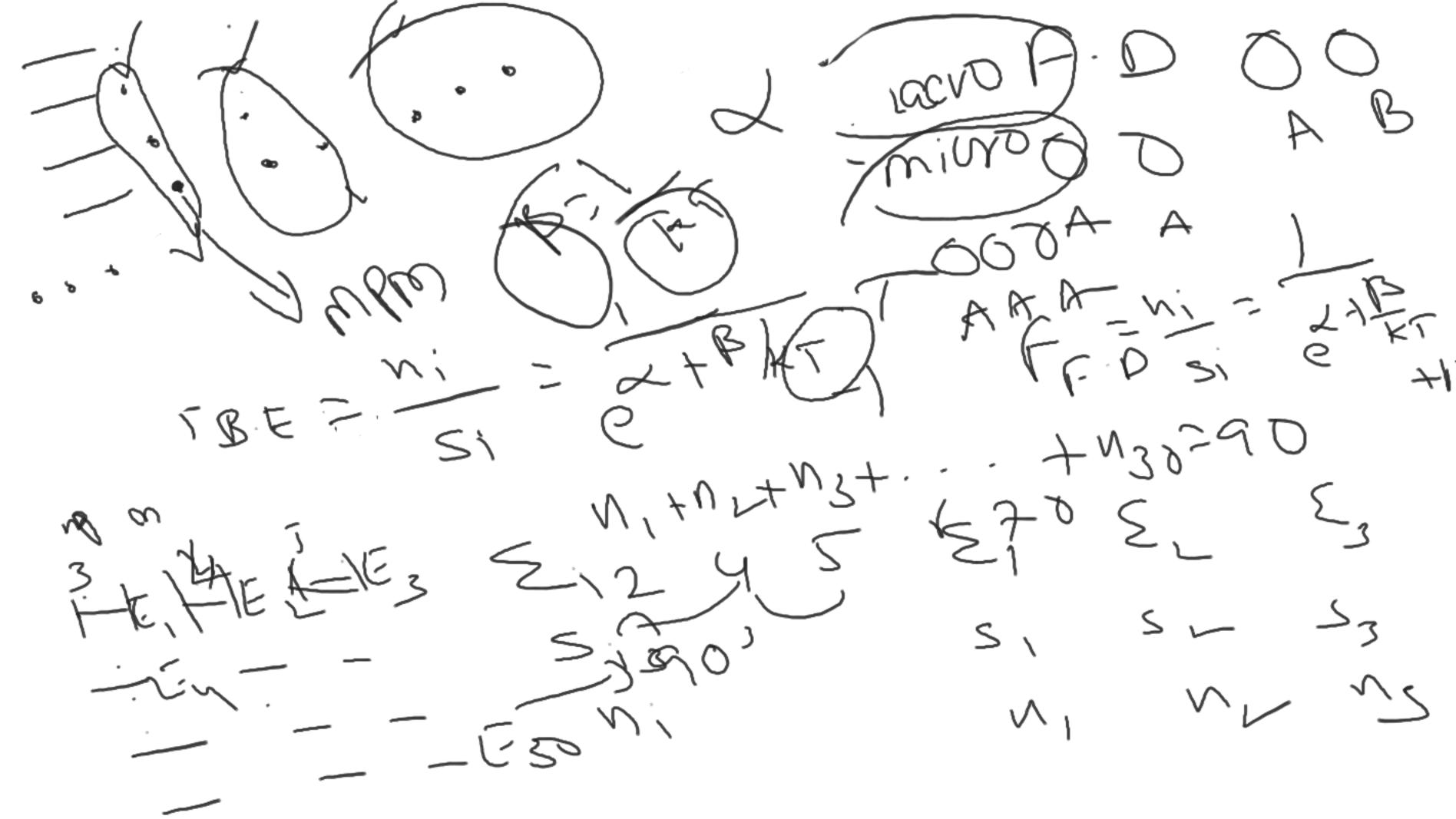
$$-\ln\left(\frac{N_{i}+S_{i}}{N_{i}}\right)=\chi+\beta\in i$$

$$\frac{N_{i}+S_{i}}{N_{i}}=e^{\chi+\beta\in i}$$

$$\frac{\chi+\beta\in i}{N_{i}}=e^{\chi+\beta\in i}$$

$$\frac{\chi+\beta\in i}{N_{i}}=e^{\chi+\beta\in i}$$

SCTBEI SC+BE1 OXAB(7'



Fermi - Divac statisticy

Silvi)

Will Silvi)

UI = UT BE Statisticy 000 =) 31(U-3)1 31 + PEL Mediship (0 0 -) 12912/2010 00-) ni AA TID->S; B

F.D. Statistils

1. The Particly are indistinationally so that there is no distinction by the different ways in which his Particly are 2. The particly oby parts 'Exclusion principle according to which each subtened (or) CCV may contain either o (or) 3. The total energy of the System remain Contrait 4. The total no of rastilly in the citur systmis glosay contait N-N, + n, + n, + n, = n = cold

W(D) = The no of ways in which the most NO Can be attained microstate Probable 6000 2000 6 00 8

 $\sqrt{}$ 3) WB 1=0 Ni!(5;-n)

 $\omega(\bar{n}) = \frac{1}{1-\delta} \frac{3i!}{Ni!(si-ni)}$ Total no of ways in which the microstate is can be attained Take In on both sider

 $IN(\omega(\bar{n})) = \sum_{j=0}^{j=1} InS_{j,j} - INS_{j,j} - INS_{j,j}$

$$|n(x)| = \sum_{i=0}^{\infty} |n(x_i)| - |n(x_i)| - |n(x_i)| = \sum_{i=0}^{\infty} |n(x_i)| - |n(x_i)|$$

$$8m(n) = \sum_{i=0}^{1-2} \{2im2i - nimni + 2nimni + 2nimni$$

Total energy 81 ten system remains

Total energy 81 ten system remains constant

$$\sum_{i=0}^{\infty} \sum_{j=0}^{\infty} x_i = \sum_{i=0}^{\infty} x_i = \sum_{i=0$$

 $\leq \sqrt{2} \leq \sqrt{2}$ ≥ 8vi, -0 - (D) X X i=0 ν είρνι = ο - (3) X P ξ - ο using lagrange method of undetermined multiplies; X=8N; [-M(\(\frac{\sin'}{\sin'}\)) + \(\sin'\) -m(===) +2+BEi = 0 N) = Kont M(Sini) - X+BEi 1=0,1,2,3. Si-vi-extBEi

2+BEi SLABET 2+BEI 2+BEi