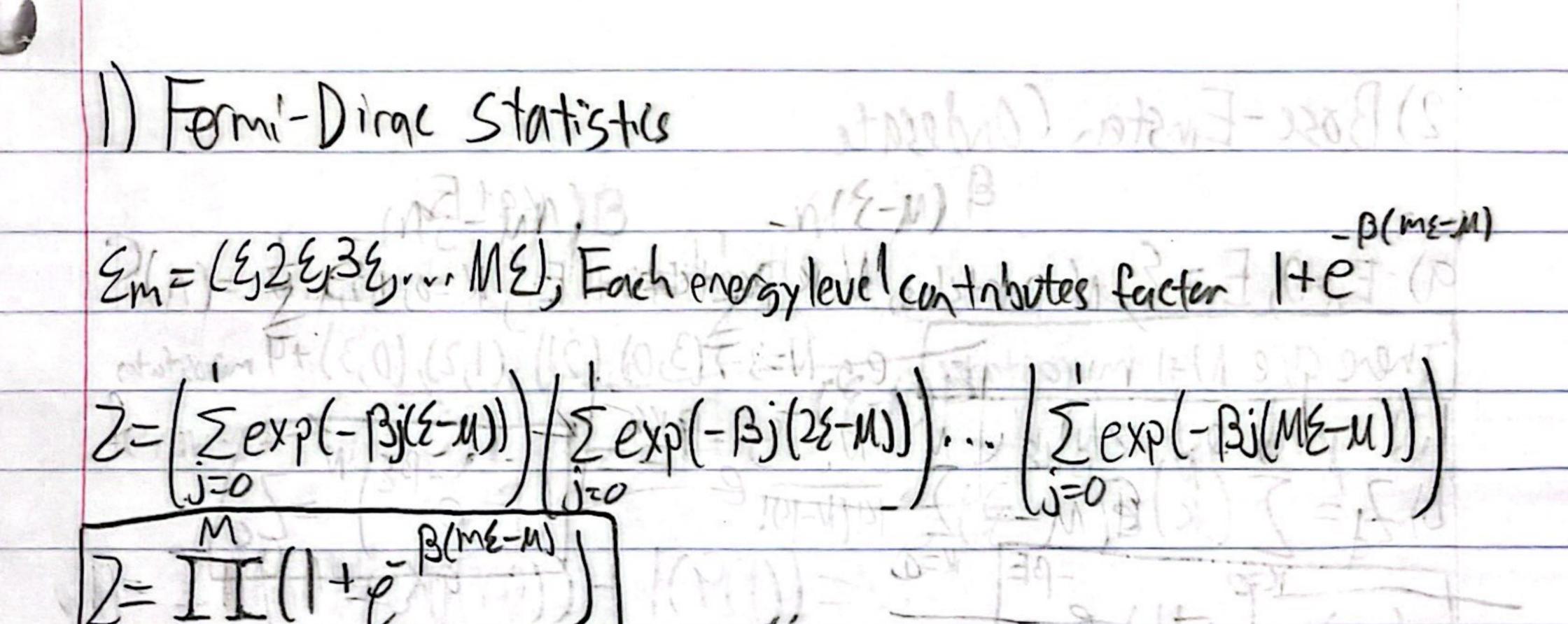
Physics 129L S5B

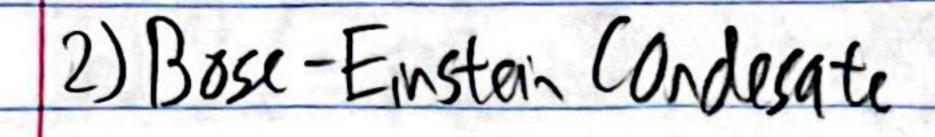
100

W=



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Mysic 1291 258



Kat Eo

9) E=0, E=2, N particles, N-1K particles at E, 1K=0, 1,2,...N

There are N+1 microstates, e.s. N=3+(3,0),(21),(1,2),(0,3)+4 microstates

b)
$$Z_e = \sum_{k=0}^{N} \binom{N}{k} e^{-\beta k k} = \sum_{k=0}^{N} \frac{N!}{k! \lfloor N-k \rfloor!} e^{-\beta k k} = \left[(1+e^{-\beta k})^N - Z_c \right]$$

P(Es) = (1) Z

See plot in 192. P.

$$\frac{1}{2} = \frac{1}{2} = \frac{1}$$

e) (Mo), (nz)=?

I'm calling it here. Having this class require, week-to-week doing different disciplines at an upper division/graduate level, is not dains it fair inte !!.