3. Arterly behar Juan sistema magnetihoan dagshion egoen-elwates magnetihoa honaho hav da:

1. Lord homelalus sistemei dagolinen lemo adiabatikorei dagolinen adierazpena, HIM dragraman.

Lero adiabatiliosi dagonien adientipena lortello termodinamiharen behenengo printripitaren adientipen infinitesimal orollora idattillo 201: du = 80+5W => 80 = du - SW

L=L(T,H) Hanile en SW mag = HdH sistema magneticoaren Lasuració adientpena honales de:

$$SQ = \left(\frac{\partial u}{\partial T}\right)_{H} dT + \left(\frac{\partial u}{\partial H}\right)_{T} dH - HdH$$

$$\frac{\partial u}{\partial H} = \frac{cH - cM}{M \alpha} + H \quad d\alpha \quad eh \quad CH - (H = \frac{T \cdot H \cdot \alpha^2}{kT} \quad Mayemen$$

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$$\frac{\partial u}{\partial H} = \frac{T \cdot H \cdot \alpha^2}{M \alpha} \quad Mayemen$$

$$\frac{\partial u}{\partial H} = \frac{T \cdot H \cdot \alpha^2}{KT} \quad Mayemen$$

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$$\left(\frac{\partial u}{\partial H}\right)_{T} = -T\left(-\frac{\partial H}{\partial T}\right)_{M} + H = T\left(\frac{\partial H}{\partial T}\right)_{M} + H$$

( )H lostrello agren duatro mogrethica erabilità dut.

$$M = \frac{c}{T}H \Rightarrow H = \frac{HT}{c}$$

$$\left(\frac{\partial H}{\partial T}\right)_{H} = \frac{H}{c}$$

Oidvan,

$$\left(\frac{\partial u}{\partial H}\right)_{T} = T \cdot \frac{H}{C} + H = H + H = 2H$$

Lerro adiabaticoei dagocciena lorttello, proteso adiabaticoron baldintale orderlecho behar dingu et ondoren integratu.

$$\int -CN dT = \int \frac{HT}{C} dN \iff \int -\frac{EN \cdot C}{T} dT = \int H dN \iff \ln \left(T^{-CN \cdot C} \cdot K\right) = \frac{H^2}{2}$$

Baina nile lorn neuri dodan adventipena H/Hdiagramation de. Ordvan,  $T = \frac{HC}{H}$  ordescripena eginet,

$$k = \frac{e^{+H^2/2}}{\left(\frac{HC}{M}\right)^{-CN \cdot C}} = e^{+H^2/2} \left(\frac{HC}{M}\right)^{-CN \cdot C}$$

How da bent, sisteman, HIM stagramon, bagolion leno adiabatilisen adientipena.