p= ln(\$\frac{P}{P})\frac{P}{P}\right) p= (8-1)pr  $b = e - \frac{1}{2} \left( u_1^2 + u_2^2 + u_3^2 \right) = \frac{U_y}{U_0} - \frac{1}{2(1)^2} \left( \frac{U_1^2 + U_2^2 + U_3^2}{2(1)^2} \right)$  $= - V_0 lm \frac{(\delta - 1) (U_4 - U_1^2 + U_2^2 + U_3^2)}{P_0} \frac{1}{2} \frac{1$ (4 = - ) - olle (0)

ollu(0) = 0 Note : 

Uo C. C. 6 Similar to QH/dUz and dH/duz. Lence, we derived dH/duo ol # /du W 04/102 74/9/4C

Fi= UiU+PGi V= OlH Vo Fi,i = H,i Ui + HUi,i V. Fc,i=(Uc,iU+UiU,i+P,i6i+P6c,i).V 2) Ui of of the Ui Hi V Vo(p,iGi) = V. (PAG, +P,2G2+PAG2)

(D V/p Si,i) = 1 | ui | p 61,1+622+63,2 = - (-ui,i)p ) V = (Ui,i V) = Ui,i V = (Ui,i V-= 1412 P 1- - + 11 + 44 x - 1 - - + 1012 PX+P-LA-K = 1 + 4

Huna: (0+0+0)-V 17 + H) 4 c,i + Ui H,i +0 - P 1 = Huc, + Uild, i = (Hui), i 400

B 4.2 (com) - - Uj Jij Uj  $=U_{j}J_{ji}-J_{ij}U_{j}=0.$ W V. Fi =  $\frac{1-\frac{q_i}{2}-\frac{q_i}{c_i}}{2}$ -V. Fi= uj pbj p (biui+r) 2 = Ujpbj-poiui-pr = -pr eve Fr.

D=Vic (Fi+Fi) -> Fi+Fi= | Jr1 |

Jojuj+Kai  $D = \left(\frac{U_R}{I}\right)_{ii} \left(\int_{ki} + \int_{-1}^{-1} \int_{ij} u_j + J_K \theta_{ii}\right)$ Ukic 1,1 (k) + 1 (7 (1) + ) ( 0, c) = Uk,i Jki Cv O,i Cv O,i C= 85/CVA2 Uki (2 m Eki + 1 Ejs dki) = Zu Eki Uk, i + 1 Ejj Ui, i Note that: Eder (froulers) Uki Eki = ) Eki - Enn Ski + Enn Sik Veil Eli Eii + = Enn Exx

Love putting everything look together: D = Eij Eij (ZM) + ZM3+1 (Vou) + X | VO |2 Ourd We can per that 10 >0 as long as 2m + 1 > 0, which is true to the thousand of motion.

