#3) FIRST let'S MOT ASSUME BRILLOUIN VISD doubles equations: $\frac{\left(\frac{1}{1}\right)\left(\frac{1}{$ $(\chi t) \qquad (0) \qquad (yt)$ (X^{\dagger}) $(X^{\dagger} + Y^{\dagger})$ (1) (1+2+) (1+x+) < DISTRIBUTE · We know that leading orders must be the same on both sides of the equation. · SINUE THE LEGIDING Order OF the LHS is X, and the leading order of the PHS is 1) CISD SINGLES EQUATIONS (21) (0) (yt) (1) (0) (2t) (2t) (2t) (2t) (2t) (2t)(z+) (z+y+) (1) (1+z+) (2+) $\leftarrow [bistribute]$ · again, since the leading of bet of each side must be équal on each side [Z=1] VISD ENERGY EXPLESSION Ev= (\(\bar{\Pi}\) (Vv (\(\frac{\frac}\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\fra · by the same argument 14=21 TOAXXXTOM | X | TOA \$3) NOW IF WE ASSUME BRILLOVINI THE SAME so was and therefore or have leading Obbab 1.

$$\begin{array}{ll} \text{Dok} & \text{To} \\ \text{Cab} \left(\begin{array}{c} \text{Cab} \\ \text{Cab} \end{array} \right) = \left(\begin{array}{c} \mathbb{E}_{1}^{ab} \left[\begin{array}{c} \text{Vo} \left(1 + \text{U}_{1} + \text{U}_{2} \right) \right] \mathbb{E} \right) \\ \text{(1)} & \text{(0)} & \text{(2+)} & \text{(1)} \\ \text{(1+)} & \text{(0)} & \text{(1+2+)} + \text{(2)} \end{array} \end{array}$$

(1+Z

$$C_{n}^{i}(e_{n}^{i}+e_{0})=(\bar{\Phi}_{i}^{n})V_{0}(\chi+U_{1}+U_{2})/\bar{\Phi})$$
(24) (0) (41)

ENERBY EXPRESSIONS

$$E_{0} = \langle \overline{\Phi} | V_{0}(y_{1} + U_{2}) | \overline{\Phi} \rangle$$

$$(y+) \qquad (1) \qquad (1+1) \qquad \Rightarrow \qquad [y=2]$$