Quantum Chemistix HWS

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1) $\hat{C}(\alpha \pm) | f_{n}(x) g_{m}(\pm) | \hat{I}_{n}(x) | f_{n}(x) g_{m}(\pm) | \hat{I}_{n}(x) g_{m}(\pm) | \hat{I}_{n}(x) g_{m}(\pm) | \hat{I}_{n}(x) | \hat{I}_{n}(x$

2)

(CH = \(\tau \) \

wave function or orbital.

 $Q_{n}(L) = \sum_{i} C_{i} Q_{i}(L)$ $Q_{n}^{*}(L) = \sum_{i} C_{i}^{*} Q_{i}^{*}(L)$

Un* (4 Ch Ch = I I Cin Ch 2, (4) 2*(1)

Q(1) = = = (= C: n C: n) 2: (4) 2.* (4)

Now define density matrix Dis = Z Cin Cin then

QCH = ZZ D;; 2; CH 2; *CH

12