2- VII H = pe + U(9) H= P1 + U(9) € 71= ZEn En Cn, {,} Quantisalin of H  $\hat{\mathcal{H}} = \sum_{n} \hat{Q}_{n}^{\dagger} \hat{Q}_{n}^{\dagger} \hat{Q}_{n}^{\dagger} \hat{Z}$ 7 = Z Ea 9.79, the oscillator has Energy

to work (hx + 2) deseriber meny non-interacting perticles na perhicler on the level E; Oit Ma n2... ni.... > = = \n;+1 \n, n, ... > nx11-Qt increases livel of at increases on one number of energy of i-th oscyllator particles on the with Energy Ei