From lase time: Quantization of Resenotor Et M held 24 VE E(1,t)=0 partide dassical d x(+) = p(y) A= \hat{\hat{\hat{\gamma}}} +V => \hat{\hat{\hat{\gamma}}} + \hat{\hat{\hat{\gamma}}} +V =\hat{\hat{\hat{\gamma}}} + \hat{\hat{\hat{\gamma}}} +V =\hat{\hat{\hat{\gamma}}} + \hat{\hat{\gamma}} + \hat{\hat{\gamma}} + \hat{\hat{\gamma}} + \hat{\hat{\gamma}} + \hat{\hat{\gamma}} + \hat{\gamma} + At p(t) = -du VXH = 2 EE Man Fred = Px ix +py 11 tPz 12 & Seand Quantization  $\frac{d}{dt}x(t) = \frac{p(t)}{m} \frac{d}{dt}e(t) = \frac{k}{k}h(t)$ 1=-itA de d p(t) = - mwox(t) dt h(t) = - k e(t) E= p2(t) + 1 mwo2 w= 216 (3 h2(t) + 2 & (3e2(t) 5 £4(6+) = = 1 16 LA Y(e,+) + = 6. L2 624(e,+) はませ(セモ)= + 2 & 13 e2 flet)

E4(e) = - = 16 (32 A2 d2 4(e) + = 26 (3e2 4(e) A= WOC A = - 12 MOL3 KW2C 2 d2 + 1 EOL3 e2 - (hwo) d2 + 1/2 EOL3 e2 it 2 4(e,t) = - ( tw) 2 22 4 (e,t) + { to L3 e 24 (e,t) en essent desir tod. and include time-dynamics of (H) = = 1 466 (F) + 1 E 66 (e2) Ph(e)=[Eol3]4 1 exp (-1/2 Eol3e2) Hn/[Eol1 e) Entwo(nt2) ê = Thuo (a + a+) h = Thuo (a-a+) = 1 Nol3h2t 2 to L362 = hus ( a + a + 2) nuttimuded Pablem Classics =(1,0) = \{ (1)\vec{1};(1) = \frac{d}{dt}(1) = \frac{ki}{60}\langle (t) H(7,0) = {h; (1) V; (2) d h; (1) = -kj e(t) A= = 12 No l'h; + 2 Col 3 l; 2 (+ W) d2 + 2 lo l'3 l; 2 (- 15 lo L de) 2 + 2 lo l'3 l; 2 E Z=AF I(e, e, e) = p(e, parks) E= 6 W, (n, +i) + + W2 (n + 1) +...

Elite eltitil  $\nabla x \vec{u} = i k \vec{u}$   $dt e(t) = \frac{-ik}{\epsilon} k lt$   $\nabla x \vec{u} = i k \vec{u}$   $dt k (t) = \frac{-ik}{\hbar b} e(t)$ H(r,t)= inhoeitee=int t ... W= fito Eli,t) Elino + 1 No H (i,t) Hi,t) d'h Elipto = 1x (25 wo (os lkz-wore) work (i,t)= in [21,000 (0) (pro-cust)

WHK of Mapurelegor Olep wer solvy (ZEOLET E TEIET) + ZMC (H'H+H+H+) di = tous (7,t)/15t gnor = 1x / two rike e- i wot fl(r,t) by quere = 1/y /two & ike - i wot