



2) Interval Symmetrical Consider a C realor  $\psi(x) = \frac{1}{\sqrt{2}} (\phi_1 + i\phi_2)$ L= 2, 4\*2/4-V(4\*4) where V(Y\*Y) = m2 Y\*Y + 1/2 (Y\*Y)2+ ... To find EoM, could expand it of, , or + continue as perfere but gother 141 conver (and equivalent) to treat \$\frac{7}{4}, \bar{4}\* as independent variables 9, 21 4 + m2 4 + \(\bar{Y}\*\bar{Y}\)\bar{Y} + ... = 0 the L has a numery \$ -> e ix \$ or \$\$ \$ = ix \$\$ and Jy\* = -ix Y\* (Y\* -) e -ix Y\*). JL=0 grad a current it = i (2/1/4) Y - i(2/1/4) Y\* Associated construed charges of that type bout the interpretation of elective charge, or part It (e.g. borigant on leptor It).