Pinke potental well:

less find out wave this for potiential well with Inite height U, L width and contains a possible was enorgy EKU. 2 2 2 2 NIZ all IL

classically, the particle bourse inside the box.

QMlz, the porticle bounce back but it her a probabilit of penegrating the barried e enated in to T& III even day ELU for

S TER T

In region ? & III, & ear is

1 dy + 2m (E-U)2-20

0 12 dry + - 12 4 = 0 1 x <0

when be 2 Vame-0)

the solus are 2/2 cetex toe Jehrs 1 - Felex + Gelex

29 E ATU MUST be Smite.

Les 1 10 x -> -0 exx 20

x -> 0 exx 30 in D= F=0

we've $27 = ce^{kx}$ 24TT = G E In magion It is also 297 = A Sin Jame 1 + B CO Jame 1) In intinte car, 24 = 0 @ boundries But home 211 = C at 11=0 2 211 = GEQ 11= L For eiter solu 20 & deldre must be continuous. at 1:0 & N=L. :. The 24 @ 11:0 X=L howe contin value - the wars for one)1=L 21-6 probabiliz the wome long donot A inside be (6) is long => the mometume home En will lowed blin that at intende.

well. The particle bonne to a forth and it has a probability

be pendiose the walls in both directions. IL ESU, All transmissia 7-1 continos sur Not bound strate The deeper a broader the well, queated the no. of board states.