839. Bomolous grynnigens u éé prizementi anoron y(x,y, z, t) de beparennement, dV- memern odreing dP=1412dV = 4. 4*dV=1412dxdydz f= dP = 14/2 [14/2 dV=1 - yarokue nomunoban. DY DY DZ , Dt E40. Ynakrenne Ulpignmena. - h = 4 + V4 = ih = 4 $\Delta = \frac{\partial^2}{\partial x^2} + \frac{\partial^2}{\partial y^2} + \frac{\partial^2}{\partial z^2}$ U=U(x,y,Z,t) - nomeny. Inepuns. i=V-1 - mrummant egnemiga. Tenen P-A gamma 1. Воли. до-я непрерыв, одногном. $Y(x,y,z,t)=Y(x,y,z)e^{-iEt}$ E-norman megn. racm. - 1 - 2m ove ist + uve = invert. (-if) - Th of - UY = EY

 $-\frac{\hbar^{2}}{2m}\Delta\Psi - (E-U)\Psi = 0$ $\Delta\Psi + \frac{2m}{\hbar^{2}}(E-U)\Psi = 0 - Cmarsnorrapsice yn-e Wyrżgunieno$ бил. Задача о частизе в беспечений viol | u=00 0 < x < l U = 0 $\frac{d^2Y}{dx^2} + \frac{2m}{\hbar^2} (E-U)Y = 0$ Y(0) = 0 } xpaeboul Y(1) = 0 } yenobus $\frac{d^2Y}{dx^2} + \frac{2m}{\hbar^2} EY = 0$ $w^2 = \frac{2mE}{\hbar^2}$ $\frac{d^2\Psi}{dx^2} + W^2\Psi = 0$ Y(x) = a sin(wx + d)Y=(0)=0 -> Y(0)=asin = d=0 - d=0 Y(L) = 0 -> Y(L) = asinWL = 0 $Wl = \pm niZ \qquad (n = 1, 2, 3...)$ $W^{2} = \frac{n^{2}Z^{2}}{l^{2}} \qquad W^{2} = \frac{2mE}{\hbar^{2}} = 2mE = \frac{n^{2}Z^{2}}{\hbar^{2}} = 2mE$ $= 2E = \frac{z^{2}h^{2}}{2ml^{2}} n^{2}.$ $I = 2E = \frac{z^{2}h^{2}}{2ml^{2}} n^{2}.$