16.

Ecuatia lui Schrodinger atemporala si unidimensionala:

psi’’ (x)+2\*m0/h^2(E-U(x))) psi(x)=0

1. Potentialul din care deriva forta elastica este U(x)=1/2 \*k\*x^2 iar ecuatia Schrodinger devine:

psi’’ (x)+2\*m0/h^2(E-1/2\*k\*x^2) psi(x)=0

1. Potentialul: U(r)=q1q2/4 pi E0\* 1/2

psi’’ (x)+2\*m0/h^2(E- q1q2/4 pi E0\* 1/2) psi(r)=0