```
(* z16 *)
(* U(x) = V0*v(x); V0 = 25 eV, L = 3 Å; *)
L = 3. / clength;
n = 2
A = -L; B = +L;
V0 = 25. / cenergy;
(* Laguerre polynomial L_n(x) => LaguerreL[n,x] *)
U[x_Real] := If[Abs[x] < L, V0 * (LaguerreL[5, Abs[x]]), W];
Plot[U[z], {z, A - 0.1, B + 0.1},
 PlotStyle → {AbsoluteThickness[2], RGBColor[0, 0, 1]}, PlotRange → {All, 2.9}]
```