## Morse potential 20.0 $V(r) = D_e * (1 - e^{-a*(r - r_r)})^2$ $V(r) = \frac{1}{2} * k * (r - r_r)^2$ 17.5 15.0 12.5 V(r) $\left[\frac{1}{cm}\right]$ 10.0 7.5 5.0 2.5 0.0 + -0.0010-0.00050.0005 0.0010 -0.00150.0000 0.0015

 $\Delta R = (r - r_r)_{[nm]}$