

Exact numeric  
solve

Approximated analytical  
closed form

**Weak mutations effects  
approximation**

$$\omega_R^{DN} = U f(r_D, r_{max}, \lambda, n)$$

$$\lambda \ll r_{max}$$



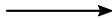
$$\omega_R^{DN} \approx U \frac{e^{-\alpha} \alpha^{-3/2}}{\sqrt{2\pi}}$$

effects of dimension  $n$   
vanish

$$\alpha \approx \frac{r_D^2}{4 r_{max} \lambda}$$

**The effective stress level**

$$\phi_R^{SV} = g(r_D, r_{max}, \lambda, n)$$



$$\phi_R^{SV} \approx \frac{r_D}{\lambda n/2 + \alpha \lambda + r_D}$$