Physics 2MM Physweb 3 Reference

1. $\Delta\phi = 2\pi\sigma_1 \cdot b$
2. $\Delta\phi = 2\pi(\sigma_1 b + \sigma_2 a)$
3. $V_{init} = \sqrt{\frac{4\pi\lambda Q}{m}}$
4. $\phi(0,0) = 2\lambda_0$
5. $\phi(r) = -2\pi\rho\left(\frac{d^2}{4}\right) - 2\pi\rho(r - \frac{d}{2})$
6. $-\left(\frac{\pi\rho_0 d^4}{48l^2} + \frac{\pi\rho_0 d^3}{6l^2}\left(r - \frac{d}{2}\right)\right)$
7. $W = 0$
8. $\Delta\phi = 4\pi a\sigma_1 \ln(\frac{a}{b})$