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$$W_{n,1} = \frac{iV_{n,1}}{E_n - E_1}$$

$$V_{n,1} = \frac{\pi^2}{Ma^3} n$$

$$E_n = \frac{1}{2M} \left(\frac{\pi}{a} n \right)^2$$

$$\omega_n = E_n - E_1 = \frac{1}{2M} \left(\frac{\pi}{a} \right)^2 (n^2 - 1)$$

$$P(n) = |W_{n,1}|^2 \cdot \epsilon_0 e^{-(\tau_0 \omega_n)^2}$$

$$\frac{\epsilon_0}{\tau_0} \ll \frac{1}{Ma}$$

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$$P(n) = |A(a) - e^{i\phi} A(b)|^2$$

$$A(a) = 2 \frac{\epsilon_0}{a} \left(\frac{n}{n^2 - 1} \right) e^{-\frac{1}{2} (\tau_0 \omega_n(a))^2}$$

$$\phi = \int_a^b \omega_n dt = \frac{\pi^2}{2M} (n^2 - 1) \frac{1}{v_0} \left(\frac{1}{a} - \frac{1}{b} \right)$$