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when  $Ka \ll 1$ . Expand the sine and cosine to obtain in lowest order  $(\frac{P}{Ka})^2 \approx 1 - \frac{1}{2}(Ka)^2$ . The energy is  $E = \frac{\hbar^2 k^2}{2m} = \frac{\hbar^2 (\frac{P}{\hbar a})^2}{2m}$ . (b) At  $k = \frac{P}{\hbar a}$  the determinantal equation is  $(\frac{P}{Ka}) \sin Ka + \cos Ka = 0$ . In the same limit this equation has solutions  $Ka = \frac{\pi}{2} + \delta$ , where  $\delta \ll 1$ .

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