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an integer. For example, for the reflection (222) we have $S(\text{basis}) = 1 + e^{-i3\pi} = 0$, and this reflection is forbidden.

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The proposed solution is seen directly to $\psi(x) = A \cos(kx) + B \sin(kx)$ satisfy this and to satisfy the boundary conditions $\psi(0) = \psi(L) = 0$. (b) For $\delta \ll \lambda$, $\psi(x) = A \cos(kx) + B \sin(kx) \approx A(1 - \frac{1}{2}k^2x^2) + B(kx - \frac{1}{6}k^3x^3) + \dots$ $2 \times 1/2 \cosh = 1 + \frac{1}{2}k^2x^2 + \dots$ $2 \times \frac{1}{2} \lambda^2 \frac{1}{\delta^2} \delta^2 \cosh = 1 + \frac{1}{2}k^2x^2 + \dots$ $2 \lambda^2 \frac{1}{\delta^2} \delta^2$ therefore $B(x) = A - \frac{1}{8}k^2 \delta^2 - 4x^2 \cdot 2a$.

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 (b) For $\delta \ll \lambda$, $\left(\frac{2}{\lambda} \right) \frac{1}{2} a$.
 $2 \times \frac{1}{2} \left(\frac{x}{\lambda} \right) \cosh = 1 + \left| \frac{\delta}{\lambda} \right|$
 $+ \dots \frac{2}{\lambda} \left(\frac{\lambda}{\lambda} \right) \frac{1}{2} \left(\frac{\delta}{\lambda} \right) \delta$
 $\cosh = 1 + \left| \frac{\delta}{\lambda} \right| + \dots \frac{2\lambda}{2} \left(\frac{\delta}{\lambda} \right)$
 $2\lambda \left(\frac{\delta}{\lambda} \right) \left(\frac{\delta}{\lambda} \right)$ therefore $B(x)$
 $= B a - B a \frac{1}{8\lambda} \frac{\delta^2}{2} - 4x$
 $2 \cdot 2a$.

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 $\cos \theta = -1/3$, whence $\theta =$
 $\cos^{-1}(-1/3) = 99^\circ 19' 28''$
 $\theta = 90^\circ + 9^\circ 28'' = 99^\circ 28''$.

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 $= -1/3$, whence. $\theta = \cos^{-1}(-1/3) = 99^\circ + 19' 28'' = 109^\circ 28''$.
 2. The plane
 (100) is normal to the x
 axis. It intercepts the a'
 axis at $2a'$ and the c' axis.
 at $2c'$; therefore the
 indices referred to the
 primitive axes are (101).
 Similarly, the plane.

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 equation) Wave equation
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