

# Cordas sonoras

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Física

# Ondas estacionárias

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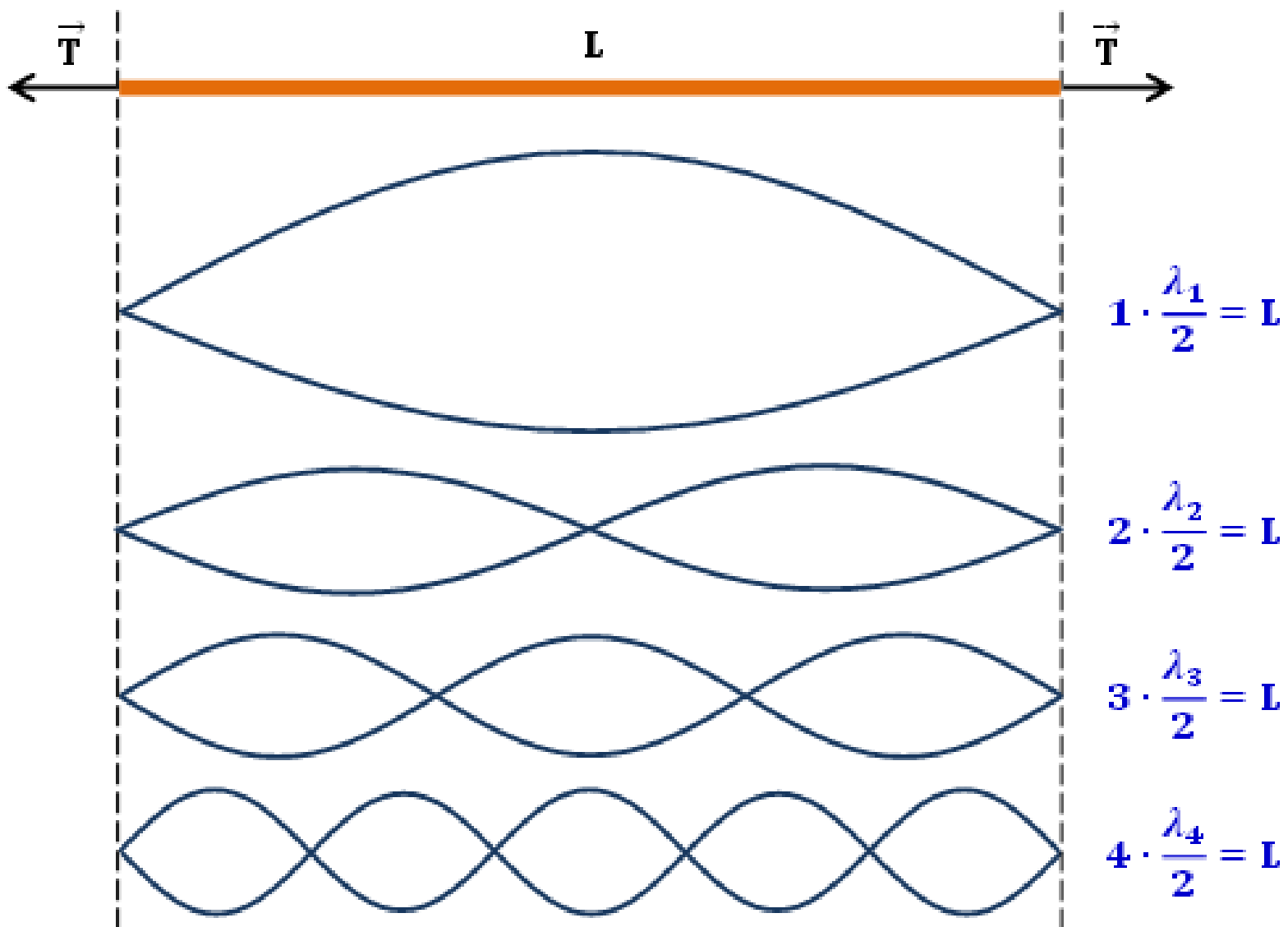


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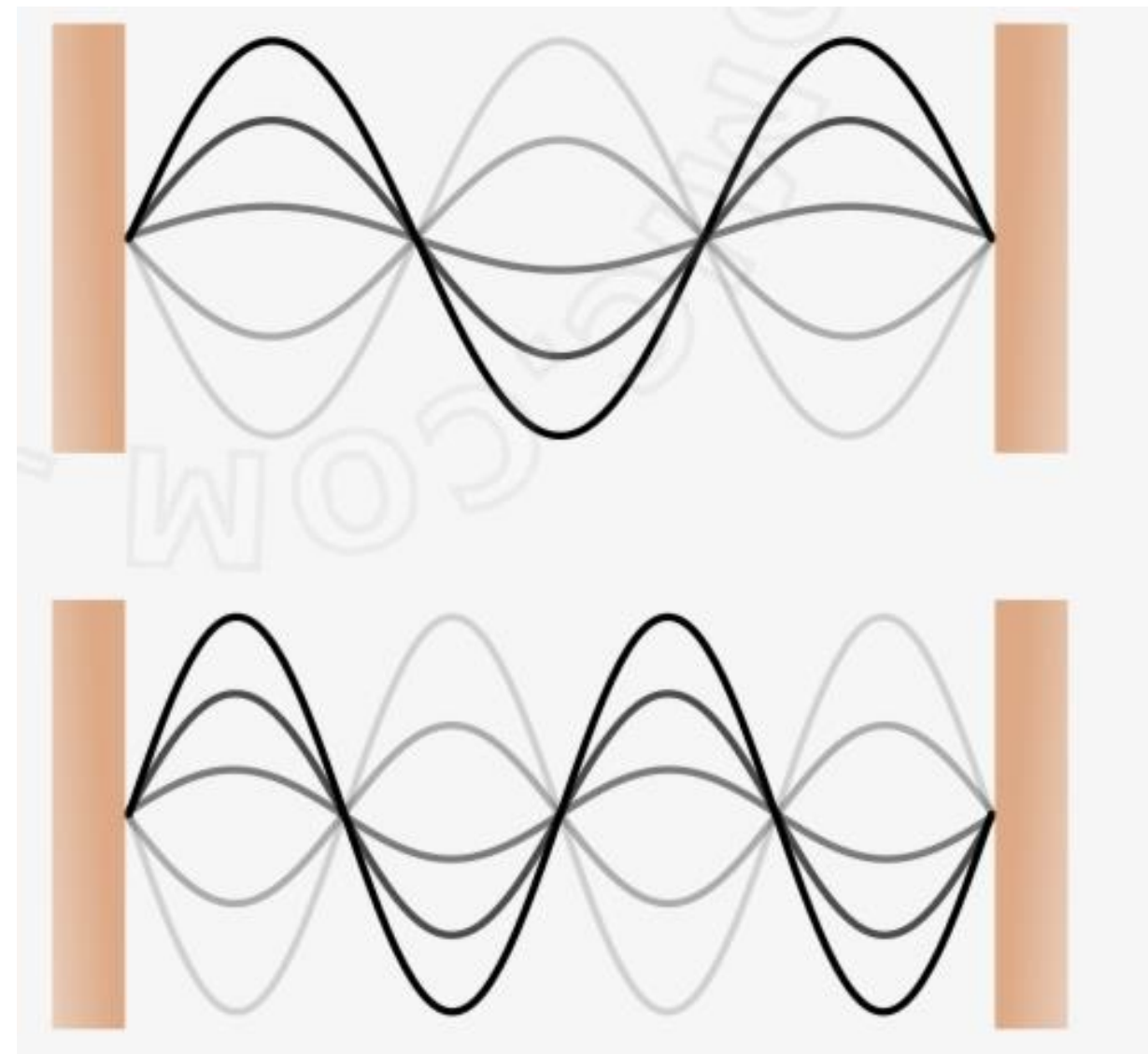
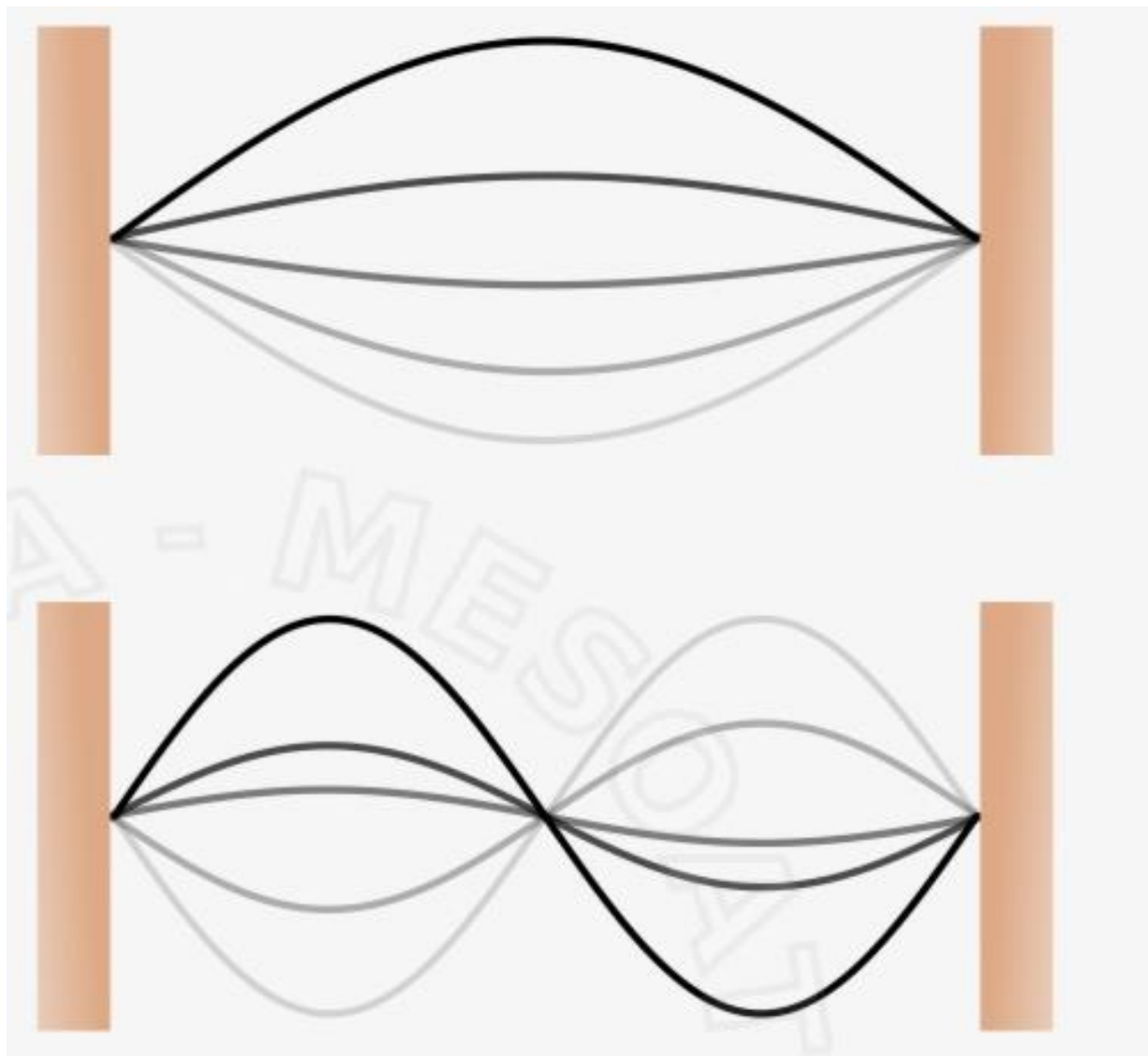
*Um som audível ao ser humano  
apresenta  
frequência entre 20Hz e 20000Hz  
e intensidade acima de 0db*

”

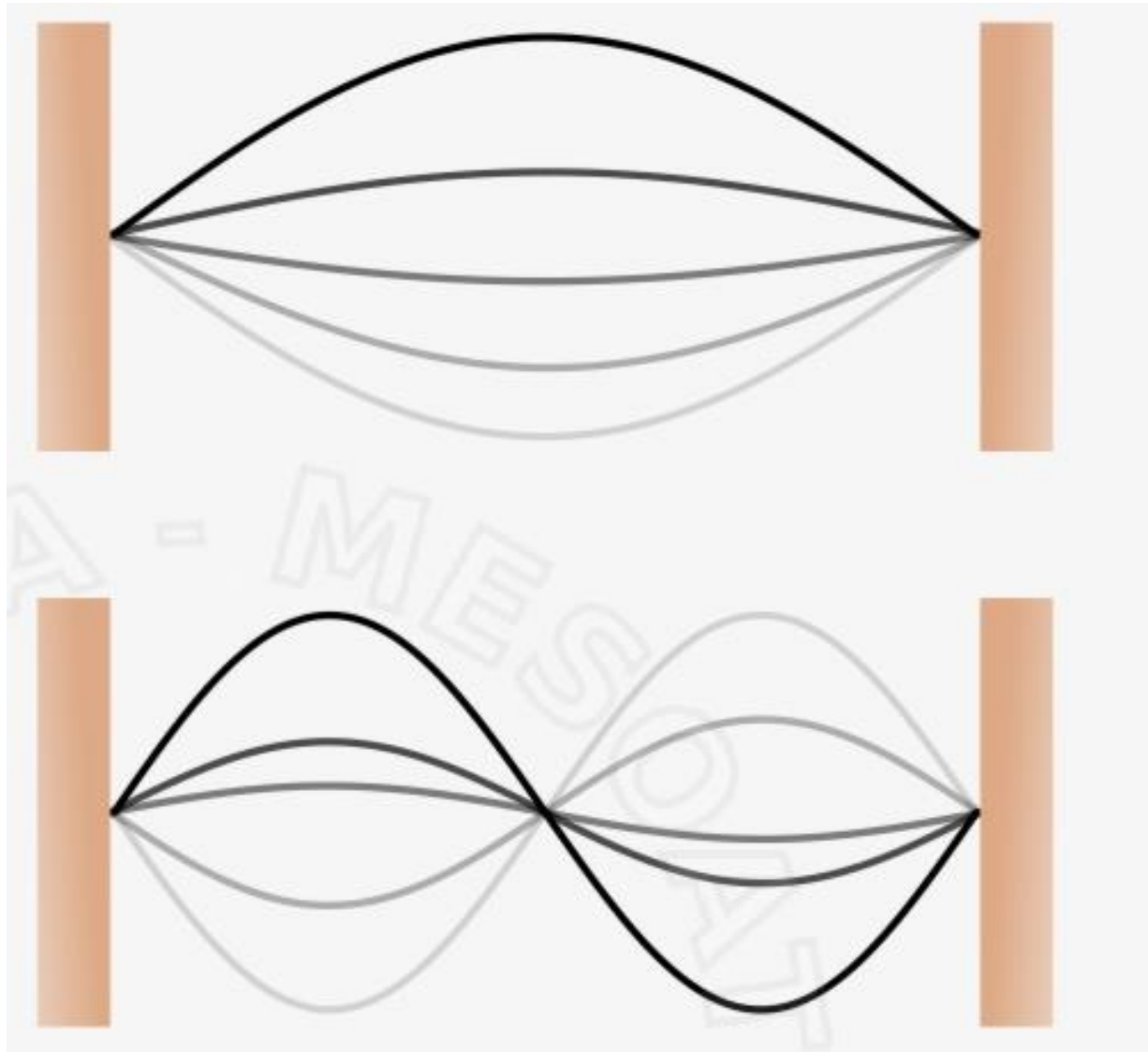
# Harmônicos de ressonância



# Harmônicos de ressonância



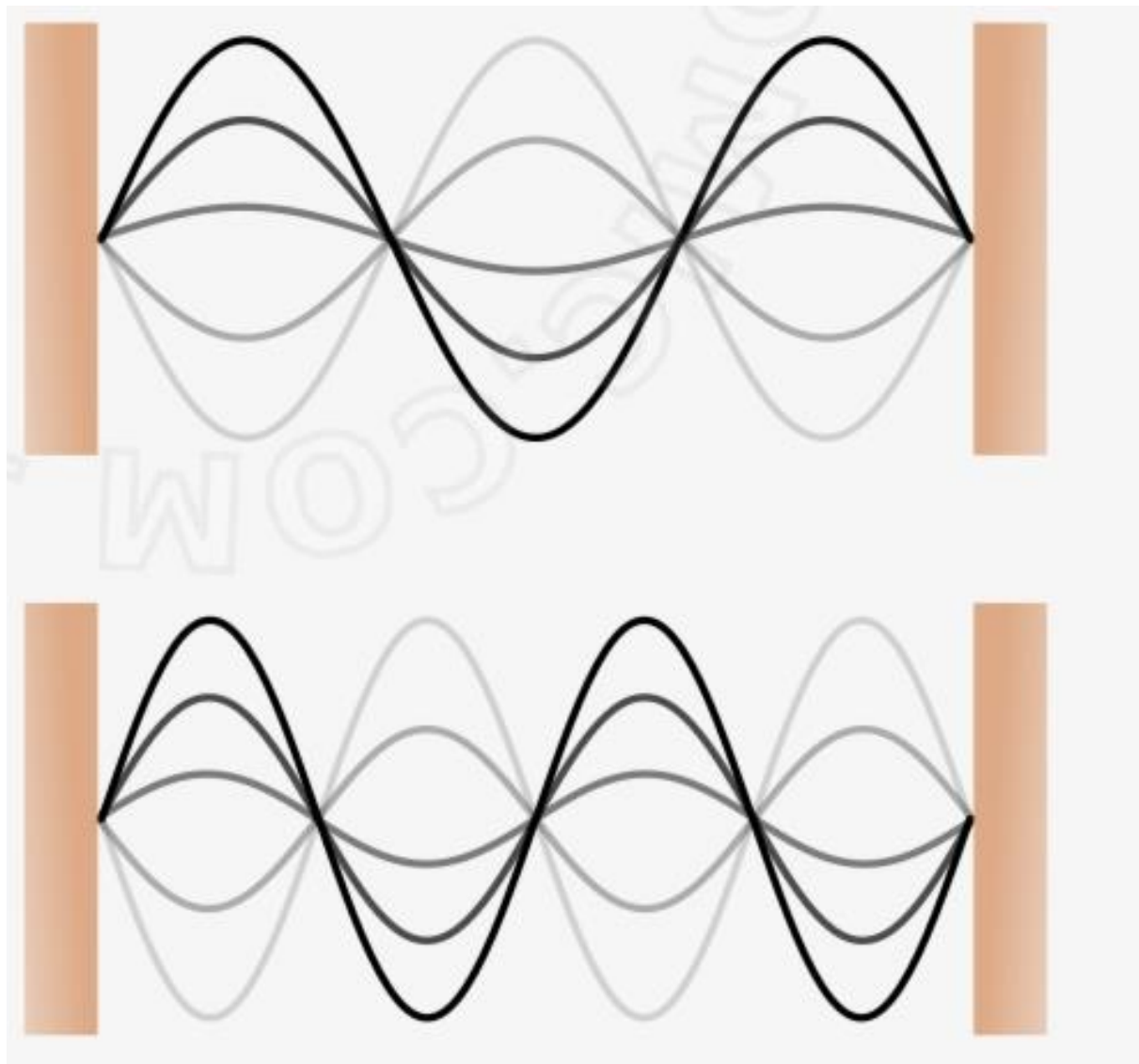
# Harmônicos de ressonância



$$1^{\circ} \text{ H} \quad L = \frac{1}{2} \lambda$$

$$2^{\circ} \text{ H} \quad L = \frac{2}{2} \lambda \quad 2x f_0$$

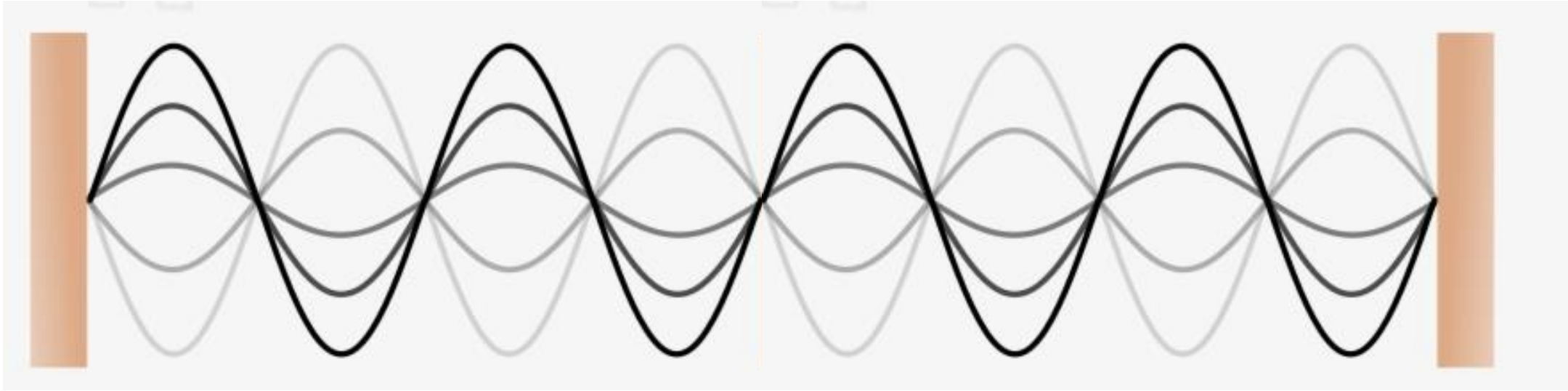
## Harmônicos de ressonância



$$3^{\circ} \text{ H} \quad L = \frac{3}{2} \lambda \quad 3x f_0$$

$$4^{\circ} \text{ H} \quad L = \frac{4}{2} \lambda \quad 4x f_0$$

## Harmônicos de ressonância



$$8^{\circ} \text{ H} \quad L = \frac{8}{2} \lambda \quad 8x f_0 \quad v = \sqrt{\frac{T}{\mu}}$$



# Instrumentos de corda



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