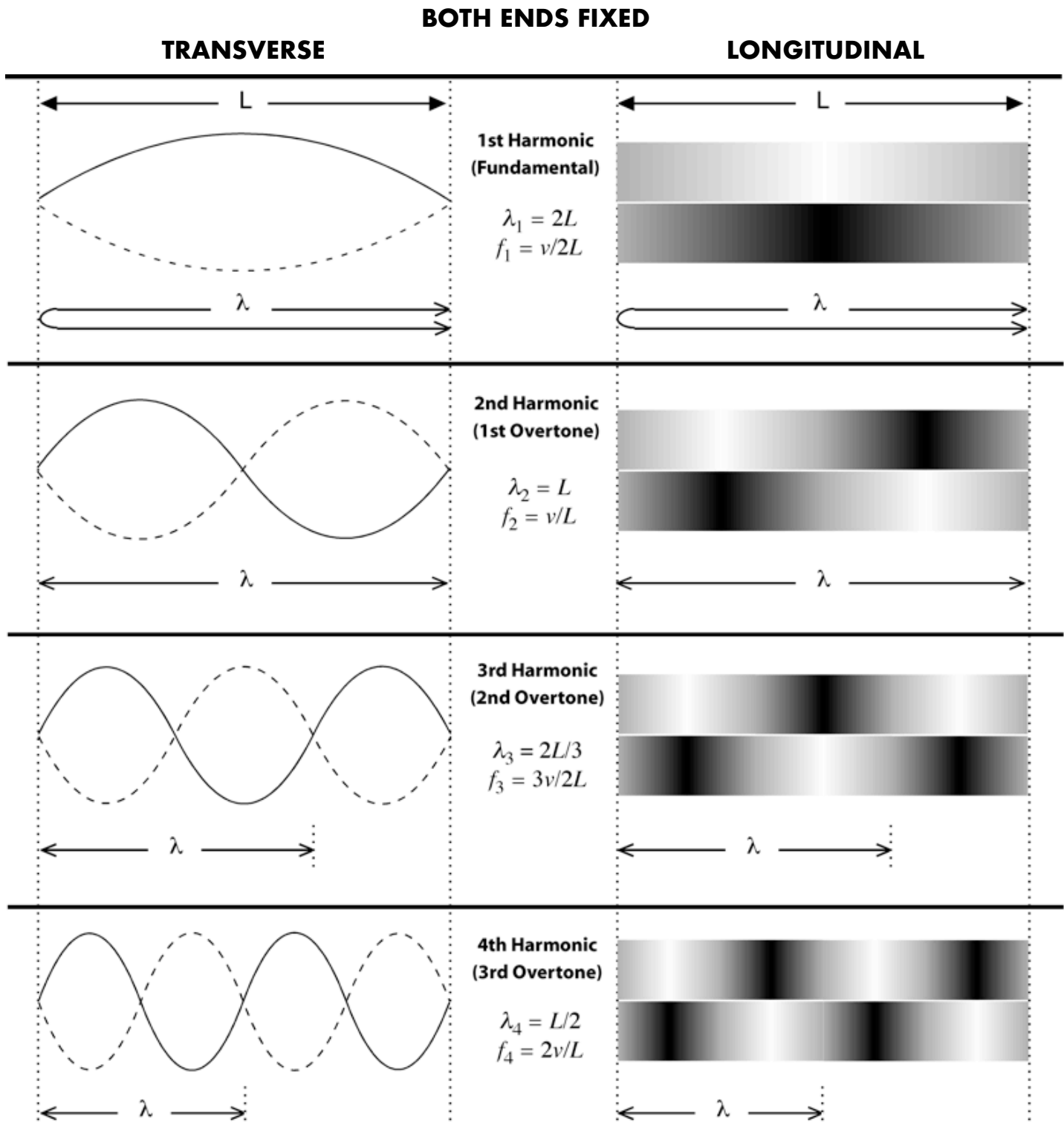
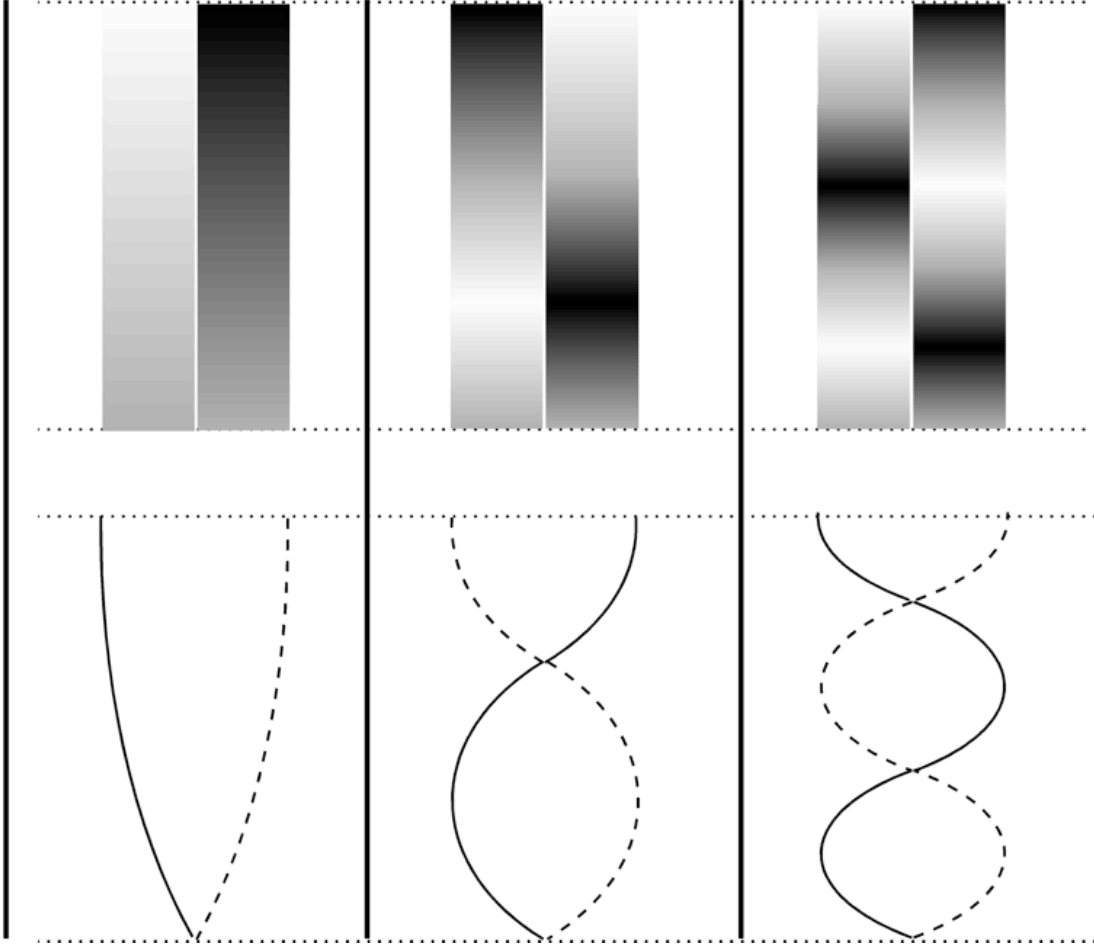


PhyzGuide: Standing Waves

Standing waves are the result of reflection and interference (superposition) of waves in a medium. Transverse standing waves can be made in a rope; longitudinal standing waves can be formed in a volume of air. In the diagrams below, standing waves are made with a cord of length L or a closed volume of air of length L . The speed of the wave is v , and the wavelength of the standing waves is λ . Each illustration consists of two snapshots of the medium (rope or air) taken a half-cycle apart.



ONE END FIXED, ONE END OPEN



BOTH ENDS OPEN

