



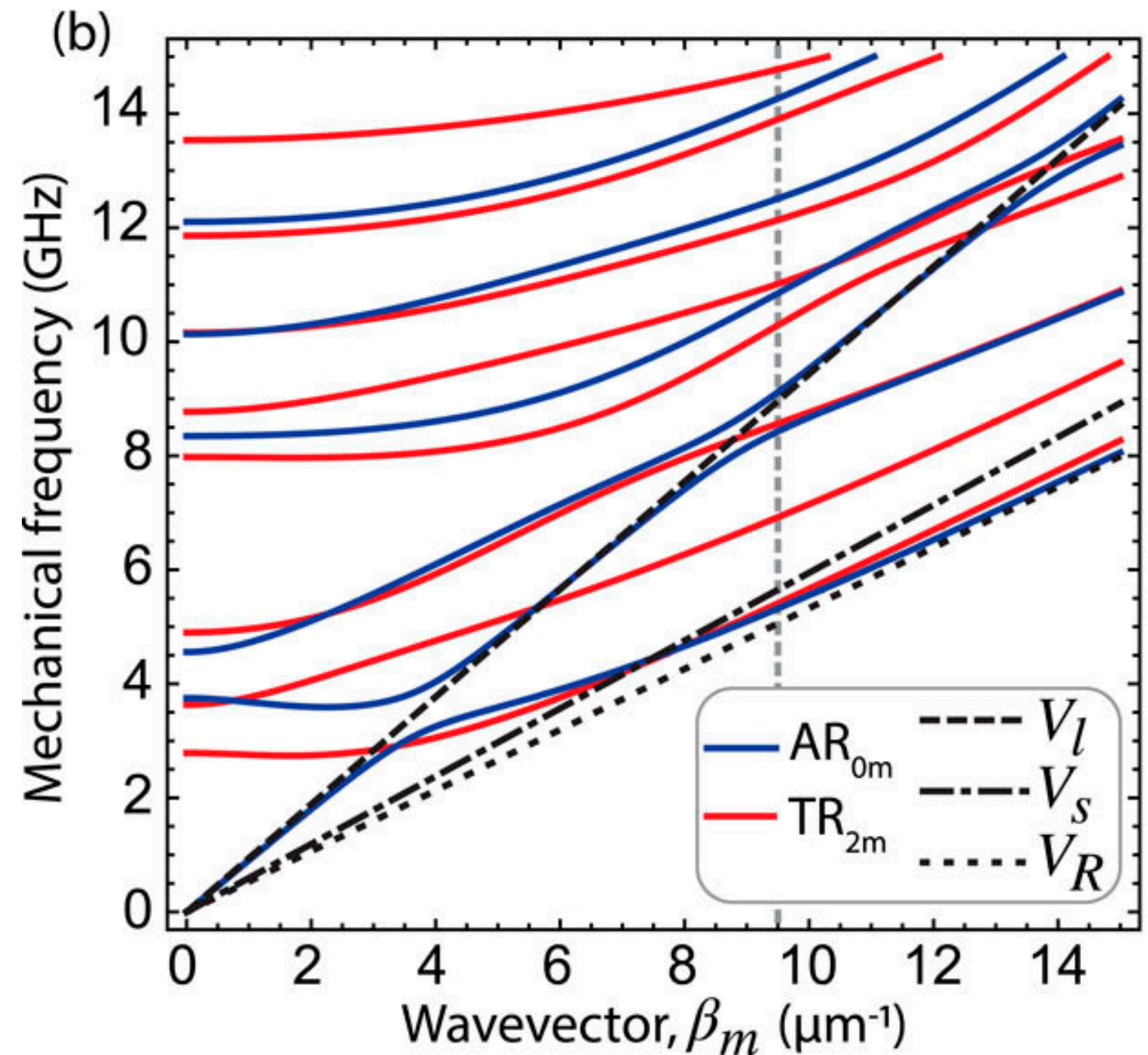
Mechanical modes

$$\left[(\lambda + 2\mu) + \eta_{11} \frac{\partial}{\partial t} \right] \nabla(\nabla \cdot \mathbf{U}) - \left[\mu + \eta_{44} \frac{\partial}{\partial t} \right] \nabla \times \nabla \times \mathbf{U} = \rho \frac{\partial^2 \mathbf{U}}{\partial t^2}$$

longitudinal waves ($\nabla \times \mathbf{u} = 0$)

shear-only ($\nabla \cdot \mathbf{u} = 0$)

Elastic wave equation





Mechanical modes

