Wave Mechanical Wave Electromagnetic Wave Observer 政家大 Source 波涛 Light Medium TE Matter Wave fransverse were 構協 longitudinal were 知波 Standing wave 32 16 Aravelling wave 17 18

$$y = A \cos wt$$
 (Source)

wave number:
$$k = \frac{2\pi}{\lambda}$$

$$\frac{\partial J}{\partial x} = A \cdot k \cdot \left(- \sin(hx \cdot wt) \right) = -A k s k (hx - wt)$$

$$\frac{\partial^2 y}{\partial x^2} = -A k^2 \cos(kx - wt)$$

$$\frac{34}{2t} = A \cdot t \cdot w \cdot (-5 \text{m} (kx - wt)) = A \cdot w \cdot 8 \text{m} (kx - wt)$$

$$\frac{3^2 4}{2t^2} = -A \cdot w^2 \cdot cs \cdot (kx - wt)$$

$$\frac{\frac{\partial^2 y}{\partial x^2}}{\frac{\partial^2 y}{\partial x^2}} = \frac{k^2}{w^2} = \left(\frac{k}{w}\right)^2 = \left(\frac{2\pi}{\lambda w}\right)^2 = \left(\frac{\pi}{\lambda}\right)^2 = \frac{1}{\sqrt{\lambda}}$$

$$\frac{\partial^2 \xi_y(x,t)}{\partial x^2} = \underbrace{\{\xi, \mu_0\}}_{2} \underbrace{\frac{\partial^2 \xi_y(x,t)}{\partial t^2}}_{2} = \underbrace{\left\{\xi, \mu_0\right\}}_{2} + \underbrace{\left\{\xi, \mu_0\right\}}_{2} = \underbrace{\left\{\xi, \mu_0\right\}}_{2} + \underbrace{\left\{\xi, \mu_0\right$$

$$\frac{3^2y}{2x^2} = \frac{1}{\sqrt{2}} \cdot \frac{3^2y}{2+2} \quad (wave equation)$$



$$\frac{\partial^2 y}{\partial x^2} = \frac{\beta}{\beta} \frac{\partial^2 y}{\partial t^2} = \frac{1}{(J_p^B)^2} \frac{\partial^2 y}{\partial t^2}$$

$$v = J_p^B B - Bulk Modulus$$

$$\frac{\partial^2 Y}{\partial x^2} = \frac{H}{F} \cdot \frac{\partial^2 Y}{\partial t^2} = \frac{1}{\left(\frac{1}{4\pi} \right)^2} \cdot \frac{\partial^2 Y}{\partial t^2}$$

$$v = \int_{\rho}^{T} Y - young's Modulus$$