$$y(x,t)$$

$$\frac{\partial^2 y}{\partial x^2} = \frac{\mu}{T}\frac{\partial^2 y}{\partial t^2}$$

$$\frac{\partial^2 y}{\partial x^2} = \frac{1}{v^2}\frac{\partial^2 y}{\partial t^2}$$

$$v = \sqrt{\frac{T}{\mu}}$$

$$z(x,y,t)$$

$$\frac{\partial^2 z}{\partial x^2} + \frac{\partial^2 z}{\partial y^2} = \frac{\sigma}{S}\frac{\partial^2 z}{\partial t^2}$$

$$v = \sqrt{\frac{S}{\sigma}}$$

$$\omega_{n_x n_y} = \pi\sqrt{\frac{S}{\sigma}}\left[\frac{n_x^2}{L_x^2} + \frac{n_y^2}{L_y^2}\right]^{\frac{1}{2}}$$