6.1a) 
$$\Omega_{h}^{2} = e^{-i\mu h^{3}e^{(i\mu hz)}}$$

$$\frac{\int_{2}^{3} a_{h} - -i\mu h^{3}e^{(i\mu hz)}}{\int_{2}^{3} z^{3}}$$
6.11:  $\frac{\int_{2}^{3} \mu h^{3}e^{(i\mu hz)} - i\mu h J J_{h}^{2}}{\int_{2}^{3} \mu h^{3}e^{(i\mu hz)}} = 0$ 

$$\mathcal{L}_{1} = \begin{pmatrix} (i\mu h 2) \\ \mu h^{3} - \frac{h [JJ]_{1}^{2}}{[JJ]_{2}^{2}} \end{bmatrix} = 0$$

$$\mathcal{L}_{1} = \begin{pmatrix} h [JJ]_{1}^{2} \\ \mu h = \begin{pmatrix} h [JJ]_{1}^{2} \\ \mu h \end{pmatrix} = \begin{pmatrix} h [JJ]_{1}^{2}$$

6. (c) 
$$\lambda_t = \frac{1 + \kappa_1^2 / \lambda_2}{2 \kappa^2} \lambda_u$$
  $\lambda_t = \frac{1 + \kappa_1^2 / \lambda_2}{2 \kappa^2} \lambda_u / 3$ 

i)

$$\frac{\lambda_{t_1}}{\lambda_u} (2 \kappa^2) = 1 + \frac{\kappa_1^2}{\lambda_u} (6 \kappa^2) \lambda_t = 1 + \frac{\kappa_3^2}{\lambda_u} (6 \kappa^2) \lambda_u$$

$$\frac{4 \kappa^2 \lambda_t}{\lambda_u} = 1 + \kappa_1^2$$

$$\frac{4 \kappa^2 \lambda_t}{\lambda_u} = 1 + \kappa_1^2$$

$$\frac{4 \kappa^2 \lambda_t}{\lambda_u} = 2 + \kappa_3^2$$

$$3(1+K_1^2) = 2 + K_3^2$$

$$K_3^2 = 3(1+K_1^2) - 2$$

$$K_3 = \sqrt{3(1+K_1^2)} - 2$$