

$$= \left(\frac{1}{u(\lambda_1 \lambda_2 - \lambda_2^2)} \right)^2 \left(\Leftrightarrow + \cancel{\lambda_{11} \lambda_{22} \lambda_{12} d_1 d_2} \right)$$

$$(\rightarrow) \int \Leftrightarrow + \cancel{\lambda_{11} \lambda_{22} \lambda_{12} d_1 d_2} - \lambda_{12}^3 d_1 d_2 - \lambda_{11} \lambda_{22}^2 d_1^2 + \lambda_{12}^2 \lambda_{22} d_1^2$$

$$+ \lambda_{11} \lambda_{22} \lambda_{12} d_1 d_2 - \lambda_{11}^2 \lambda_{22} d_2^2 - \lambda_{12}^3 d_1 d_2 + \lambda_{11} \lambda_{12}^2 d_2^2$$

$$+ \cancel{\frac{1}{2} \lambda_{12}^2 d_2^2} - \lambda_{11} \lambda_{12} \lambda_{22} d_1 d_2 + \frac{1}{2} \lambda_{11} \lambda_{22}^2 d_1^2$$

$$+ \frac{1}{\lambda_{12}^3} d_1 d_2 - \cancel{\lambda_{22} \lambda_{12} d_1^2} - \lambda_{11} \lambda_{12}^2 d_2^2 - \lambda_{22} \lambda_{12}^2 d_1^2 + \lambda_{22} \lambda_{11} \lambda_{22} d_1 d_2$$

$$+ \frac{1}{2} \lambda_{12}^2 d_1^2 - 2 \lambda_{12} \lambda_{11} d_1 d_2 + \frac{1}{2} \lambda_{22}^2 d_2^2$$