$$Z = f(x,y)$$

$$\sigma_{x} = \varepsilon_{xx} \text{ in variable } x$$

$$\sigma_{y} = \varepsilon_{xx} \text{ in variable } y$$

$$\sigma_z^2 = \left(\frac{\partial f}{\partial x}\right)^2 \sigma_X^2 + \left(\frac{\partial f}{\partial y}\right)^2 \sigma_y^2$$
Examin vonable Z

$$D_{L} = D_{A} (1+z)^{2} \quad \text{with} \quad D_{A} = z$$

$$D_{L} = f (D_{A}, z)$$

$$\sigma_{p_{L}}^{2} = \left(\frac{\partial f}{\partial D_{A}}\right)^{2} \sigma_{p_{A}}^{2} + \left(\frac{\partial f}{\partial z}\right)^{2} \sigma_{z}^{2}$$

$$= (1+2)^{2} \int_{0}^{2} (1+2) \int_{0}^{2} (1+2)^{2} dt$$

$$\mathcal{J}^{2} = \left(\frac{\partial f}{\partial D_{L}}\right)^{2} \mathcal{J}^{2} + \left(\frac{\partial f}{\partial P_{bolo}}\right)^{2} \mathcal{J}^{2}$$

$$= 8\pi D_{L} P_{b010} \sigma_{D_{L}}^{2}$$

$$+ 4\pi D_{L}^{2} \sigma_{b010}^{2}$$

(3) 
$$E_{ISO} = 4\pi D_{L}^{2} S_{2010}$$

$$(1+2)$$

$$E_{ISO} = f(D_{L}, S_{2010}, Z)$$

$$\frac{z}{t_{450}} = \left(\frac{\partial f}{\partial \rho_{L}}\right)^{2} =$$

$$= \frac{8\pi D_{L}^{S}_{bo10}}{(1+2)} \int_{D_{L}}^{2} + \frac{4\pi D_{L}^{2}}{(1+2)} \int_{S_{bo10}}^{2}$$

$$- \frac{4\pi D_{L}^{2}_{S_{bo10}}}{(1+2)^{2}} \int_{Z_{L}}^{2}$$

$$\rightarrow$$

$$\mathcal{F}_{\text{Ex}}^{2} = \left(\frac{\partial f}{\partial \mathcal{E}_{\text{iso}}}\right)^{2} \mathcal{F}_{\text{iso}}^{2} + \left(\frac{\partial f}{\partial \mathcal{E}_{\text{beam}}}\right)^{2} \mathcal{F}_{\text{beam}}^{2}$$