Functional:

min L = ko p (x, to) log
$$\frac{p(x, t_0)}{p(x)} dx + k_1 \int p(x, t_0) log \frac{p(x, t_0)}{p(x)} dx + k_2 \int p(x, t_0) log \frac{p(x, t_0)}{p(x)} dx + k_3 \int p(x, t_0) log \frac{p(x, t_0)}{p(x)} dx + k_4 \int h_1(x, t_0) \int h_2(x, t_0) \int h_3(x, t_0) \int h_4(x, t_0$$

We will use I way will
$$y = \frac{1}{\sqrt{1 + \delta x}} = \frac{1$$

$$=\lim_{N\to\infty} \left[y(x) + \frac{dy}{dx}(\delta x)\right]_{x=x_0} + \Delta x + \Delta \delta x - y(x) - \frac{dy}{dx}\delta x = \frac{dy}{dx} \left[x - y_0\right]_{x=x_0} + \Delta x + \Delta \delta x - y_0(x) - \frac{dy}{dx}\delta x = \frac{dy}{dx} \left[x - y_0\right]_{x=x_0} + \Delta x + \Delta \delta x - y_0(x) - \frac{dy}{dx}\delta x = \frac{dy}{dx} \left[x - y_0\right]_{x=x_0} + \Delta x + \Delta \delta x - y_0(x) - \frac{dy}{dx}\delta x = \frac{dy}{dx} \left[x - y_0\right]_{x=x_0} + \Delta x +$$

$$+ \lambda_{1} \frac{\partial P}{\partial x} \frac{\partial f}{\partial x} \delta_{x} + \lambda_{1} P \frac{\partial^{2} f}{\partial x^{2}} \delta_{x} - \lambda_{1} \frac{\partial^{2} f}{\partial x} \rho \delta_{x} - \lambda_{1} \frac{\partial f}{\partial x} \frac{\partial P}{\partial x} \delta_{x} - \lambda_{2} \frac{\partial f}{\partial x} \frac{\partial P}{\partial x} \delta_{x} - \lambda_{2} \frac{\partial f}{\partial x} \frac{\partial F}{\partial x} \delta_{x} + \frac{\partial f}{\partial x} \delta_{x} \delta_{x} \delta_{x} + \frac{\partial f}{\partial x} \delta_{x} \delta_{x} \delta_{x} + \frac{\partial f}{\partial x} \delta_{x} \delta_{x} \delta_{x} \delta_{x} + \frac{\partial f}{\partial x} \delta_{x} \delta_{x}$$

Variation by x for kullback-heibler divergence: $\int_{x}^{\infty} k_{0} p(x+\delta x,t) e_{0} \frac{p(x+\delta x)}{\hat{p}_{0}(x+\delta x)} = \int_{x}^{\infty} k_{0} p(e_{0} p+p'\delta x-e_{0} p_{0}+\hat{p}_{0}'\delta x) + k_{0} p'\delta x (e_{0} p+p'\delta x-e_{0} p_{0}-\hat{p}_{0}\delta x) = k_{0} p'\delta x (e_{0} p+p'\delta x) = e_{0} p'\delta x - e_{0} p'\delta x) = e_{0} p'\delta x$ Similarly: $e_{0}(\hat{p}_{0}+\hat{p}_{0}'\delta x) = e_{0} p'\delta x + \frac{\hat{p}_{0}'}{\hat{p}_{0}}\delta x$

Variation for differential equation:

$$\int_{x}^{\infty} \int_{x}^{\infty} \frac{d(x+\delta x)}{dt} - f(x+\delta x,\theta) - \frac{dx}{dt} + f(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \delta_{t} x - f(x,\theta) - f'(x) - \frac{dx}{dt} + f(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \delta_{t} x - f'(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \delta_{t} x - f'(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \delta_{t} x - f'(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \delta_{t} x - f'(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \delta_{t} x - f'(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \delta_{t} x - f'(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \delta_{t} x - f'(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \delta_{t} x - f'(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \delta_{t} x - f'(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \delta_{t} x - f'(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \delta_{t} x - f'(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \delta_{t} x - f'(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \delta_{t} x - f'(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \delta_{t} x - f'(x,\theta) dx dt = \int_{x}^{\infty} \int_{x}^{\infty} \frac{dx}{dt} + \int_$$

$$\mathcal{F} \int_{\lambda_3(t)} \delta_t x dt = \lambda_3 \delta_x \Big|_{\delta_0}^{\delta_1} - \int_{t} \frac{\partial \lambda_3}{\partial t} \delta_x dt$$

$$= \iint_{X} \lambda_{3}(t) \left(-\frac{\partial \lambda_{3}}{\partial t} \delta_{x} - \frac{\partial f}{\partial t} \delta_{x} \right) dx dt + \lambda_{3} \delta_{x} \Big|_{t}^{f},$$

$$-\delta x \left(\frac{\partial \lambda_3}{\partial t} + \frac{\partial f}{\partial t} \right) = 0$$

$$\lambda_3(f_0) = 0$$

Variation for berm with ha:

$$\int_{a}^{b} \frac{1}{2} (t) \int_{a}^{b} p(x+\delta x,t) dx - 1 dt - \int_{a}^{b} \frac{1}{2} (t) \int_{a}^{b} p(x,t) dx - 1 dt = \int_{a}^{b} \frac{1}{2} (t) \int_{a}^{b} p(x+\delta x,t) - p(x,t) dx - 1 + 1 dt = \int_{a}^{b} \frac{1}{2} (t) \int_{a}^{b} p(x,t) + p(x+\delta x) dx - 1 + 1 dt = \int_{a}^{b} \frac{1}{2} (t) \int_{a}^{b} p(x,t) dx dt - \int_{a}^{b} \frac{1}{2} dx dt = \int_{a}^{b} \frac{1}{2} (t) \int_{a}^{b} p(x,t) dx dt dt = \int_{a}^{b} \frac{1}{2} (t) \int_{a}^{b} p(x,t) dx dt dt = \int_{a}^{b} \frac{1}{2} (t) \int_{a}^{b} p$$

$$\frac{\partial x}{\partial x} \frac{\partial P}{\partial t} - \frac{\partial \lambda_1}{\partial t} \frac{\partial P}{\partial x} + \frac{\partial \lambda_3}{\partial t} + \frac{\partial L}{\partial t} + \frac{\partial P}{\partial x} \lambda_2 = 0$$

$$\frac{\partial x}{\partial x} \frac{\partial P}{\partial t} - \frac{\partial \lambda_1}{\partial t} \frac{\partial P}{\partial x} + \frac{\partial \lambda_3}{\partial t} + \frac{\partial L}{\partial t} + \frac{\partial P}{\partial x} \lambda_2 = 0$$

$$\frac{\partial x}{\partial x} \frac{\partial P}{\partial t} - \frac{\partial X}{\partial t} \frac{\partial P}{\partial x} + \frac{\partial P}{\partial t} \frac{\partial P}{\partial t} + \frac{\partial P}{\partial t} \frac{\partial P}{\partial t} \frac{\partial P}{\partial t} + \frac{\partial P}{\partial t} \frac{\partial P}{$$