$$E = \frac{1}{T} \left(\int_{-\infty}^{+\infty} \left(f(t-T) - \langle r \rangle \right) K(T) dT - S(t-t_0) \right)^2 \right) dt$$

suppose
$$\rightarrow$$

$$\begin{cases} f_{i-x} = f(|i-x|) \text{ at} \\ X_{k} = K(k \text{ at}) \end{cases}$$
$$\begin{cases} S_{i} = S(i \text{ at } -T_{-}) \end{cases}$$

$$\Rightarrow E = \frac{\Delta t}{T} \sum_{i=0}^{T_{\Delta t}} \left(\frac{1}{k_{i-1}} \left(\frac$$

$$\frac{}{} \qquad \text{optimiz} \Rightarrow \frac{\partial E}{\partial k_j} = 0 \rightarrow$$

$$\Rightarrow \frac{\partial E}{\partial k_{j}} = \frac{\Delta t}{T} = \sum_{i=0}^{T} \left[2 \times \left(\Delta t \stackrel{too}{\geq} \left(\int_{i-k} - \langle r \rangle \right) k_{j}^{2k} - S_{i}^{2k} \right) \right] = 0$$

$$\Rightarrow \stackrel{\text{Tat}}{=} \left[\sum_{i=0}^{k} \left(\beta_{i-k} - \langle i \rangle \right) K_k \beta_{i-j} - \beta_{i-j} S_i \right] = 0$$

$$\rightarrow \stackrel{\text{Tot}}{=} \Delta t \stackrel{\text{tot}}{=} (f_{i-k} - \langle r \rangle) k_{k} f_{i-j} = \stackrel{\text{tot}}{=} \sum_{i=0}^{T/\text{ot}} f_{i-j} S_{i}$$

charge
$$At \sum_{k=-\infty}^{+\infty} K_k \xrightarrow{\Delta t} \sum_{i=-}^{+\infty} (f_{i-k} - \langle r \rangle) f_{i-j} = \underbrace{\Delta t}_{i=-}^{+\infty} \sum_{i=-}^{+\infty} f_{i-j} S_i$$

$$\begin{cases} i \Delta t = t \\ j \Delta t = T \end{cases}$$

$$= \underbrace{At}_{i=-}^{+\infty} \sum_{i=-}^{+\infty} f_{i-j} S_i = \underbrace{At}_{i=-}^{+\infty} \sum_{i=-}^{+\infty} f_{i-j} S_i =$$