

$$E=\frac{1}{\sigma_{-N^2}}E_{-I}+\sum_{j>1}\frac{\alpha_j^2}{\sigma_{-S_j^2}}+\sum_{j>1}\frac{\beta_j^2}{\sigma_{-T_j^2}}+\sum_j\frac{\left(\rho_j-\bar{\rho}_j\right)^2}{\sigma_{-\rho_j^2}}$$

where

$$\sigma_{-N}\in\mathbb{R}$$

$$E_{-I}\in\mathbb{R}$$

$$\alpha_i\in\mathbb{R}$$

$$\beta_i\in\mathbb{R}$$

$$\sigma_{-S_i}\in\mathbb{R}$$

$$\sigma_{-T_i}\in\mathbb{R}$$

$$\rho_i\in\mathbb{R}$$

$$\bar{\rho}_i\in\mathbb{R}$$

$$\sigma_{-\rho_i}\in\mathbb{R}$$

$$\bar{a}_i\in\mathbb{R}$$