For given loss function, get (β_m, G_m) **and** $f_m(x)$

$$L(y, f(x)) = \exp(-y\, f(x)).$$

$$(\beta_m, G_m) = \arg\min_{\beta, G} \sum_{i=1}^{N} \exp\left[-y_i\left(f_{m-1}(x_i) + \beta\, G(x_i)\right)\right]$$

basis function : individual classifier (stump) $G_m(x) \in \{-1,1\}$

$$f_m(x) = f_{m-1}(x) + \beta_m G_m(x)$$