$$line: \frac{1}{2}d(x_{k+1}, \mathcal{X}^*_{f_{k+1}})^2 \leq \frac{(1}{}$$

[RGB]0,0,60- $\alpha\mu_f)^k\mu_f(\frac{L_f}{2}d(x_0, \mathcal{X}^*_{f_0})^2 - \eta^* - \eta_0) + \frac{\alpha}{2\mu_f}\sum_{t=0}^{k}(1 - \alpha\mu_f)^{k-t}||\varepsilon_t||^2 +$
norm$_s tr:$