

$$\mathbb{E}[\mathcal{L}_{e-1}(Y, f(X))] \leq \frac{1}{n} \sum_{i=1}^n \mathcal{L}_e(Y_i, f(X_i)) + 4e \ ; \alpha \rho + \sqrt{\frac{8}{n} \log \frac{2}{\beta}},$$