Figure 17: Diffusion-transport problem around a cylinder: lower bound of the coercivity constant $\alpha_{LB}^{N}(\mu)$ as a function of $\mu_1$.

Figure 18: Diffusion-transport problem around a cylinder: relative errors $\max_{\mu \in \Xi_{\text{train}}} (\Delta_{N_{pr}}^{N}(\mu)/\|u_{N_{pr}}^{N}(\mu)\|_{X})$ and $\max_{\mu \in \Xi_{\text{train}}} (\Delta_{N_{du}}^{N}(\mu)/\|\psi_{N_{du}}^{N}(\mu)\|_{X})$ as a function of $N_{pr}$ and $N_{du}$ for the RB approximations computed during the greedy procedure, for the primal (left) and the dual (right) problem, respectively. Here $\Xi_{\text{train}}$ is a uniform random sample of size $n_{\text{train}} = 1000$ and the RB tolerance is $\epsilon_{\text{tot}}^{*} = 10^{-2}$. 