Figure 11: Heat treatment problem: relative errors $\max_{\mu \in \Xi_{\text{train}}} (\Delta N_{\mu} (\mu) / \| u_{N_{\mu}} (\mu) \|_X)$ and $\max_{\mu \in \Xi_{\text{train}}} (\Delta N_{\mu} (\mu) / \| \psi_{N_{\mu}} (\mu) \|_X)$ as a function of $N_{\mu}$ 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 $\epsilon_{\text{tol}} = 10^{-2}$.

Figure 12: Heat treatment problem (heating): representative solutions for $\mu = (10, 0.02)$ and $\mu = (10, 0.2)$, at time $t = \Delta t$ (top) and $t = T$ (bottom).