$N_{re}=4$, $S=10$, $p=2$, $c=0.1$, $N_c=100$
$d_{\text{attract}}=100$, $w_{\text{attract}}=0.01$, $h_{\text{repellant}}=0.3$, $w_{\text{repellant}}=0.01$

$J^*=0.05$