(a) Functions v and $\hat{v}$ **(b)** Number of active cases (I)   **(c)** NPI intensity v

FIGURE 7 Comparison of the different NPI strategies: constant control (blue), decreasing function (purple and orange) and lower endemic equilibrium (green). Parameters values are $\beta = 1.2$, $k = 0.2$, $\alpha = 0.5$ and $\gamma = 1/200$, for a population of 50,000,000 individuals. The initial conditions is $I(0) = 100$ per 100,000. (a) comparison of functions v and $\hat{v}$, with stable (solid circles) and unstable (empty circles) equilibria. (b) evolution of the number of active cases I. Insert: an additional dynamic for the initial condition $S(0) = 45,000$, $E(0) = 200$, $I(0) = 800$ for the orange strategy. (c) NPI intensity $v(t)$.