



FIG. 16: **How average SIS persistence in different k -shells depends on virus contagiousness.** For every network we randomly sample several groups of nodes based on k -shell index (as described in SI). We plot the average virus persistence $\bar{\rho}$ for every group of nodes as a function of β for the Email, Actor, Collaboration and RL Internet networks. Virus persistence is higher for nodes located in higher k -shells.